

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU112618\
 Data File : VU028338.D
 Acq On : 26 Nov 2018 14:57
 Operator : MD/SY
 Sample : J5164-09 0.25ppb
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-03-QT4-2018

Manual Integrations
 APPROVED

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 11/30/2018 2:33:42 PM

Quant Time: Nov 27 01:45:11 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\524U0112618DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Tue Nov 27 01:03:50 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	5.75	96	46183	1.00	ug/l	0.00

System Monitoring Compounds

57) 4-Bromofluorobenzene	10.31	95	16619	0.98	ug/l	0.00
Spiked Amount	1.000		Recovery	=	98.00%	
68) 1,2-Dichlorobenzene-d4	11.86	152	14053	0.89	ug/l	0.00
Spiked Amount	1.000		Recovery	=	89.00%	

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Target Compounds

					Qvalue	
2) Dichlorodifluoromethane	1.21	85	4742	0.285	ug/l	97
3) Chloromethane	1.32	50	7981	0.282	ug/l	95
4) Vinyl Chloride	1.40	62	5688	0.294	ug/l	96
5) Bromomethane	1.63	94	2220	0.291	ug/l	82
6) Chloroethane	1.70	64	3782	0.335	ug/l	93
7) Trichlorofluoromethane	1.89	101	6029	0.285	ug/l	96
8) 1,1,2-Trichloro-1,2,2-trif	2.29	101	3750	0.308	ug/l #	87
9) 1,1-Dichloroethene	2.28	96	2898	0.258	ug/l	91
10) Iodomethane	2.41	142	1975	0.260	ug/l	96
11) Allyl Chloride	2.59	41	8522	0.300	ug/l	93
12) Acrylonitrile	2.95	53	2413	0.674	ug/l	90
13) Acetone	2.35	43	7961m	2.399	ug/l	
14) Carbon Disulfide	2.48	76	13755	0.322	ug/l	96
15) Methylene Chloride	2.70	84	5369	0.392	ug/l	94
16) trans-1,2-Dichloroethene	2.98	96	3318	0.264	ug/l	93
17) 1,1-Dichloroethane	3.45	63	8172	0.291	ug/l #	94
18) 2-Butanone	4.30	43	5896	1.189	ug/l	92
19) Cyclohexane	4.99	56	7410	0.304	ug/l	93
20) Methylcyclohexane	6.41	83	6085	0.255	ug/l	89
21) 2,2-Dichloropropane	4.23	77	6802	0.302	ug/l	96
22) cis-1,2-Dichloroethene	4.23	96	4678	0.318	ug/l	99
23) Diethyl Ether	2.11	59	3024	0.268	ug/l	94
24) tert-Butyl Alcohol	2.89	59	3089m	2.730	ug/l	
25) Methyl tert-Butyl Ether	3.01	73	9816	0.294	ug/l	92
26) Bromochloromethane	4.56	128	1729	0.308	ug/l #	90
27) Chloroform	4.67	83	10506	0.388	ug/l	99
28) 1,1,1-Trichloroethane	4.92	97	5870	0.278	ug/l	96
29) 1,1-Dichloropropene	5.14	75	6203	0.306	ug/l	99
30) Carbon Tetrachloride	5.13	117	4553	0.267	ug/l	90
31) Isopropyl Ether	3.58	45	14122	0.281	ug/l	97
32) Ethyl-t-butyl ether	4.08	59	11991	0.290	ug/l	100
33) Tert-Amyl methyl ether	5.58	73	9301	0.271	ug/l	98
34) Propionitrile	4.39	54	1756m	1.409	ug/l	
35) Benzene	5.39	78	15964	0.268	ug/l	98
36) 1,2-Dichloroethane	5.41	62	5071	0.284	ug/l #	85
37) Trichloroethene	6.19	130	4233	0.326	ug/l #	73
38) 1,2-Dichloropropane	6.43	63	4912	0.289	ug/l	97
39) Methacrylonitrile	4.57	41	1645	0.246	ug/l #	74
41) Tetrahydrofuran	4.67	42	1708	0.509	ug/l #	72
42) 1-Chlorobutane	5.07	56	9718	0.302	ug/l	96
43) Dibromomethane	6.57	93	2077	0.287	ug/l	98

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 MDL-WATER-03-QT4-2018

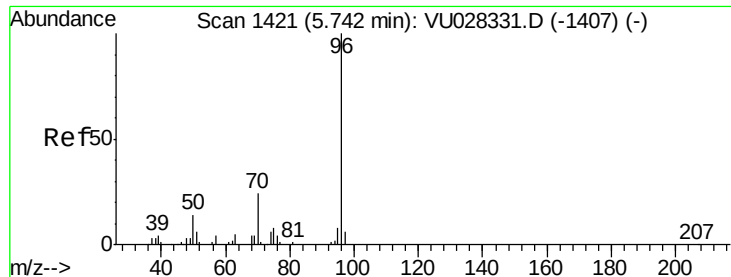
Manual Integrations
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Quant Time: Nov 27 01:45:11 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\524U0112618DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Tue Nov 27 01:03:50 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) Bromodichloromethane	6.76	83	5895	0.308	ug/l	87
45) 4-Methyl-2-Pentanone	7.47	43	15509	1.333	ug/l	97
46) t-1,4-Dichloro-2-butene	10.51	75	2475m	0.582	ug/l	
47) Methyl methacrylate	6.63	69	3809	0.515	ug/l #	93
48) Ethyl methacrylate	8.03	69	3780	0.256	ug/l	93
49) Toluene	7.64	92	8802	0.266	ug/l	98 MMDadoda
50) t-1,3-Dichloropropene	7.88	75	5083	0.277	ug/l	97
51) cis-1,3-Dichloropropene	7.27	75	5774	0.255	ug/l	96
52) 1,1,2-Trichloroethane	8.07	97	2913	0.286	ug/l	91
53) 1,3-Dichloropropane	8.24	76	5101	0.269	ug/l	89
54) 2-Hexanone	8.37	43	11151	1.332	ug/l	89 11/30/2018 2:33:42 PM
55) Dibromochloromethane	8.48	129	3158	0.292	ug/l	100
56) 1,2-Dibromoethane	8.59	107	2470	0.267	ug/l	99
58) Tetrachloroethene	8.23	164	3775	0.317	ug/l	95
59) Chlorobenzene	9.12	112	9279	0.269	ug/l	93
60) 1,1,1,2-Tetrachloroethane	9.21	131	2991	0.256	ug/l	98
61) Pentachloroethane	11.10	117	2576	0.283	ug/l #	76
62) Hexachloroethane	12.14	117	1933	0.227	ug/l	98
63) Ethyl Benzene	9.25	91	17308	0.272	ug/l	100
64) m/p-Xylenes	9.37	106	12042	0.523	ug/l	94
65) o-Xylene	9.78	106	6277	0.283	ug/l	95
66) Styrene	9.79	104	9848	0.258	ug/l	96
67) Bromoform	9.95	173	1515	0.250	ug/l	98
69) Isopropylbenzene	10.16	105	15543	0.261	ug/l	96
70) 1,1,2,2-Tetrachloroethane	10.46	83	3778	0.277	ug/l #	97
71) 1,2,3-Trichloropropane	10.49	75	2531m	0.266	ug/l	
72) Bromobenzene	10.45	156	3527	0.267	ug/l	91
73) n-propylbenzene	10.59	120	4324	0.280	ug/l	88
74) 2-Chlorotoluene	10.66	126	4080	0.302	ug/l	85
75) 1,3,5-Trimethylbenzene	10.77	105	12475	0.249	ug/l	98
76) 4-Chlorotoluene	10.77	126	3630	0.265	ug/l	100
77) tert-Butylbenzene	11.10	119	11694	0.248	ug/l	93
78) 1,2,4-Trimethylbenzene	11.15	105	12996	0.253	ug/l	100
79) sec-Butylbenzene	11.32	105	17246	0.262	ug/l	100
80) Nitrobenzene	12.87	77	658	1.071	ug/l #	49
81) p-Isopropyltoluene	11.48	119	12988	0.249	ug/l	96
82) 1,3-Dichlorobenzene	11.42	146	7195	0.272	ug/l	98
83) 1,4-Dichlorobenzene	11.51	146	7793	0.296	ug/l	96
84) n-Butylbenzene	11.89	91	14349	0.262	ug/l	95
85) 1,2-Dichlorobenzene	11.88	146	6785	0.269	ug/l	88
86) 1,2-Dibromo-3-Chloropropan	12.66	75	575	0.262	ug/l #	85
87) 1,2,4-Trichlorobenzene	13.50	180	5139	0.290	ug/l	93
88) Hexachlorobutadiene	13.69	225	2452	0.256	ug/l	93
89) Naphthalene	13.75	128	8644	0.247	ug/l	95
90) 1,2,3-Trichlorobenzene	13.99	180	4614	0.276	ug/l	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1

Fluorobenzene

Concen: 1.000 ug/l

RT: 5.75 min Scan# 1422

Delta R.T. 0.00 min

Lab File: VU028338.D

Acq: 26 Nov 2018 14:57

Instrument :

MSVOA_U

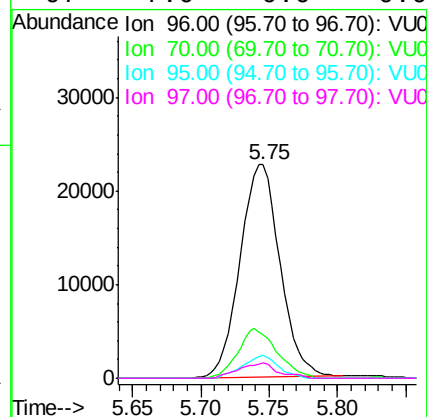
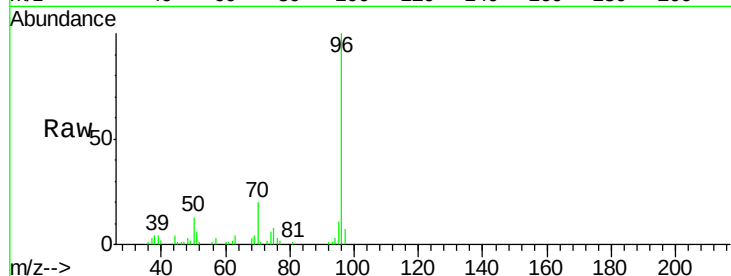
ClientSampleId :

MDL-WATER-03-QT4-2018

Tgt Ion	Ratio	Lower	Upper
96	100		
70	22.8	17.8	26.8
95	9.5	7.6	11.4
97	7.0	0.0	0.0#

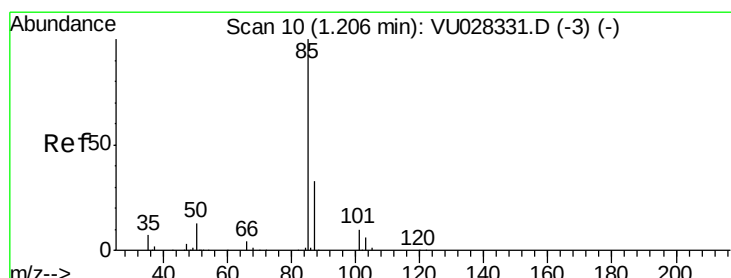
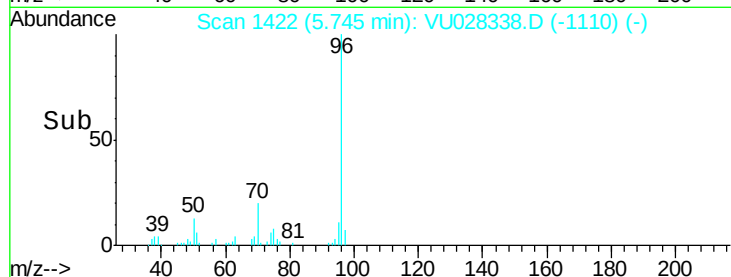
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#2

Dichlorodifluoromethane

Concen: 0.285 ug/l

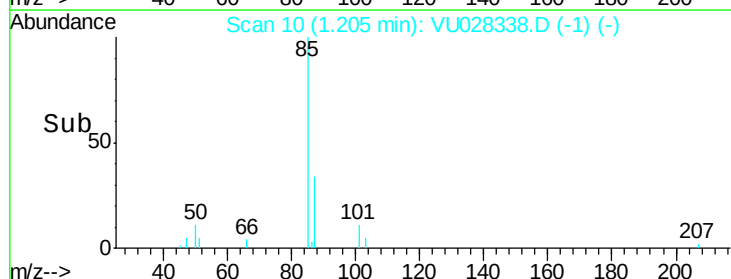
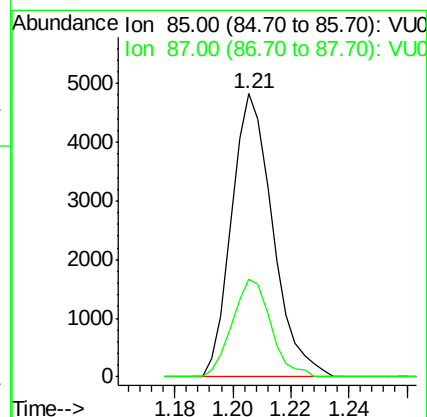
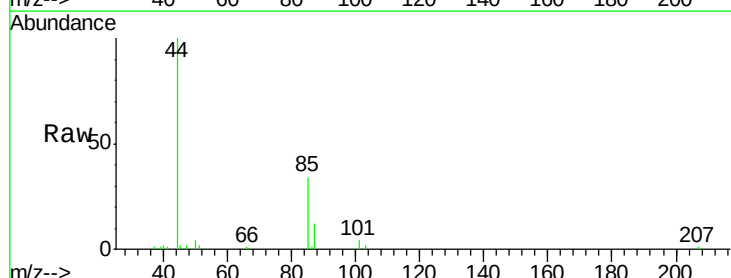
RT: 1.21 min Scan# 10

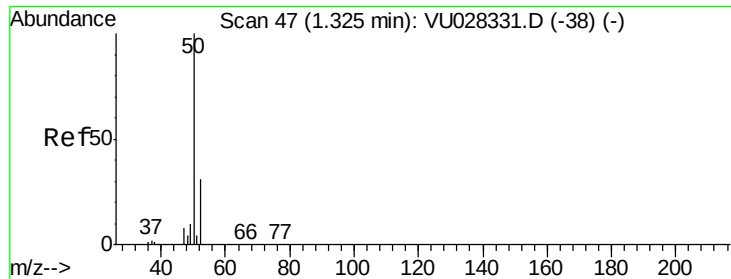
Delta R.T. -0.00 min

Lab File: VU028338.D

Acq: 26 Nov 2018 14:57

Tgt Ion	Ratio	Lower	Upper
85	100		
87	34.3	16.3	48.8





#3

Chloromethane

Concen: 0.282 ug/l

RT: 1.32 min Scan# 47

Delta R.T. -0.00 min

Lab File: VU028338.D

Acq: 26 Nov 2018 14:57

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT4-2018

Tgt Ion: 50 Resp: 7981

Ion Ratio Lower Upper

50 100

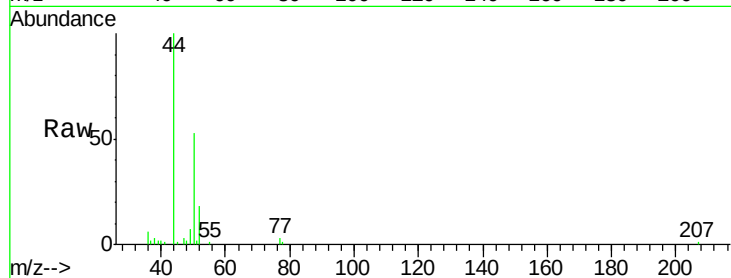
52 34.0 25.1 37.7

Manual Integrations

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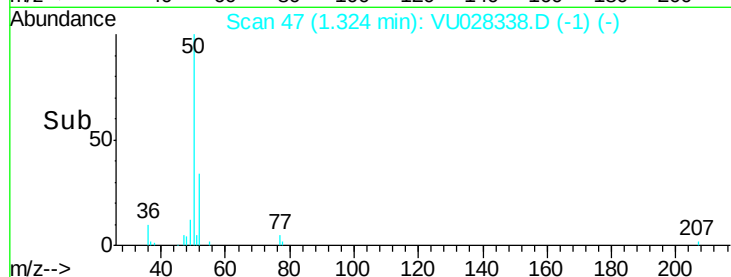
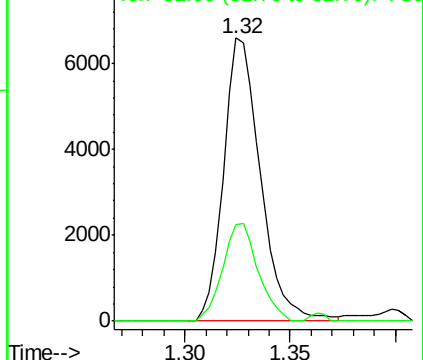
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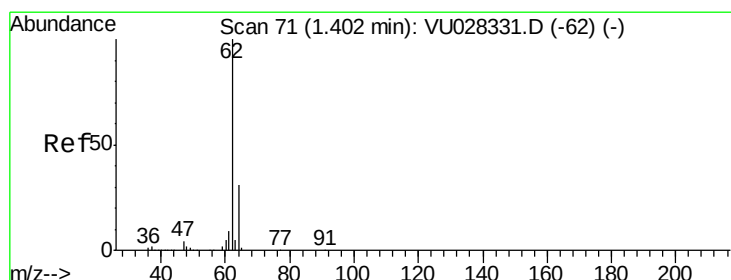
Abundance Ion 50.00 (49.70 to 50.70): VU0

Ion 52.00 (51.70 to 52.70): VU0



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#4

Vinyl Chloride

Concen: 0.294 ug/l

RT: 1.40 min Scan# 71

Delta R.T. -0.00 min

Lab File: VU028338.D

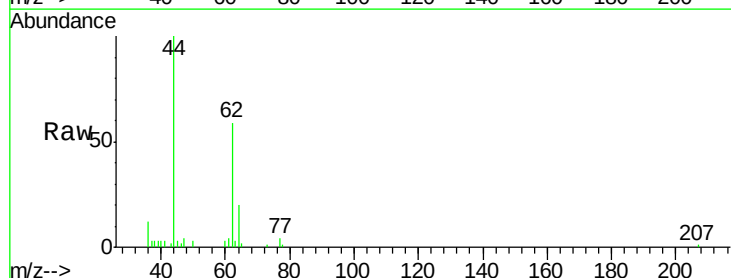
Acq: 26 Nov 2018 14:57

Tgt Ion: 62 Resp: 5688

Ion Ratio Lower Upper

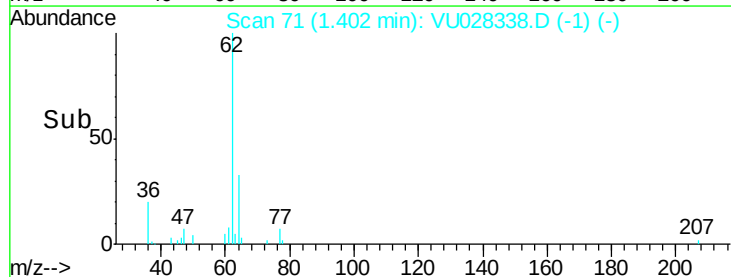
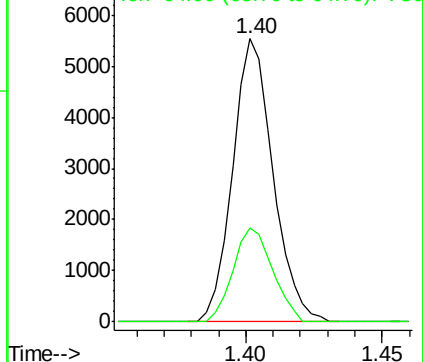
62 100

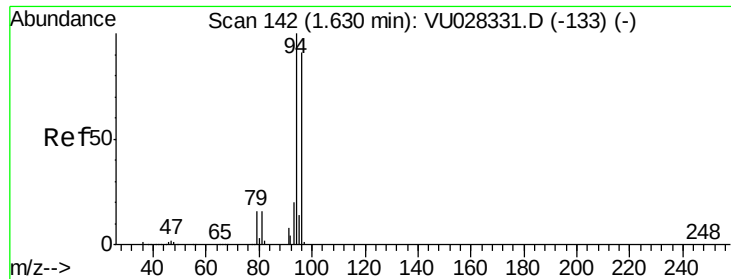
64 33.4 24.7 37.1



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0





#5

Bromomethane

Concen: 0.291 ug/l

RT: 1.63 min Scan# 142

Delta R.T. -0.00 min

Lab File: VU028338.D

Acq: 26 Nov 2018 14:57

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT4-2018

Tgt Ion: 94 Resp: 2220

Ion Ratio Lower Upper

94 100

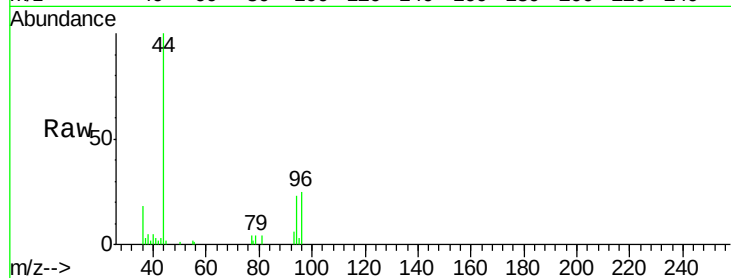
96 108.8 73.1 109.7

Manual Integrations

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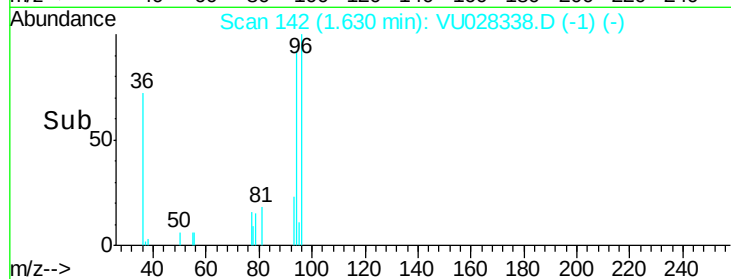
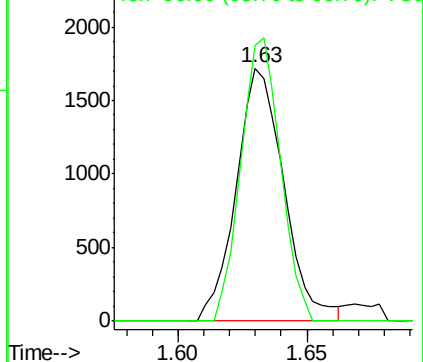
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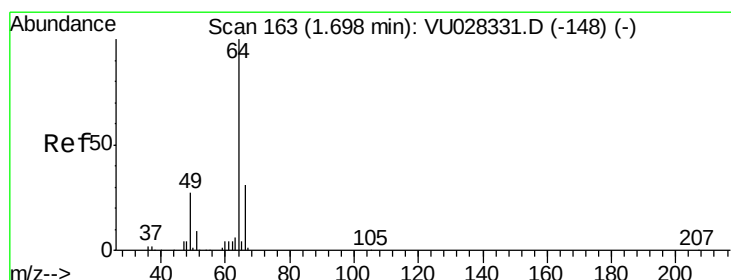
Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0



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#6

Chloroethane

Concen: 0.335 ug/l

RT: 1.70 min Scan# 164

Delta R.T. 0.00 min

Lab File: VU028338.D

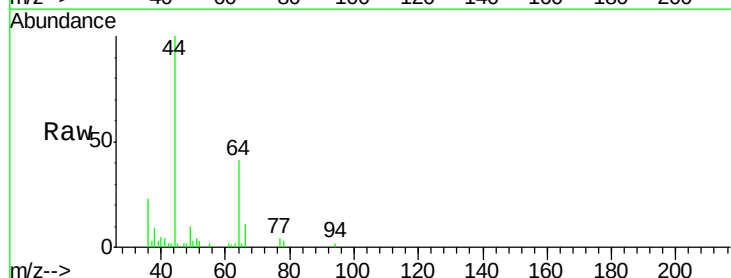
Acq: 26 Nov 2018 14:57

Tgt Ion: 64 Resp: 3782

Ion Ratio Lower Upper

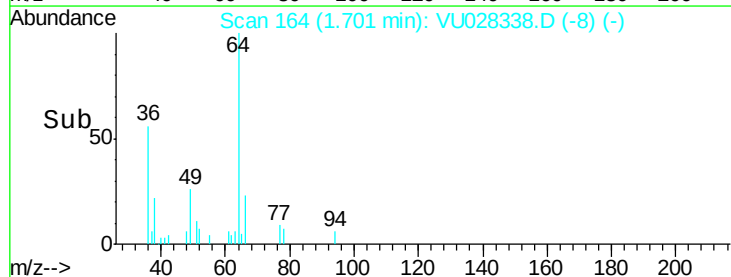
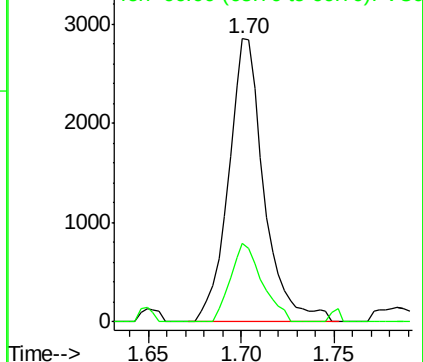
64 100

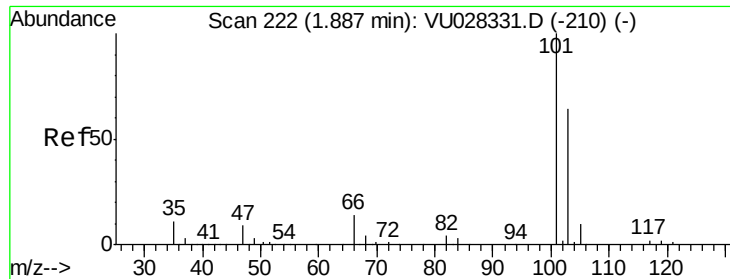
66 27.7 25.1 37.7



Abundance Ion 64.00 (63.70 to 64.70): VU0

Ion 66.00 (65.70 to 66.70): VU0





#7

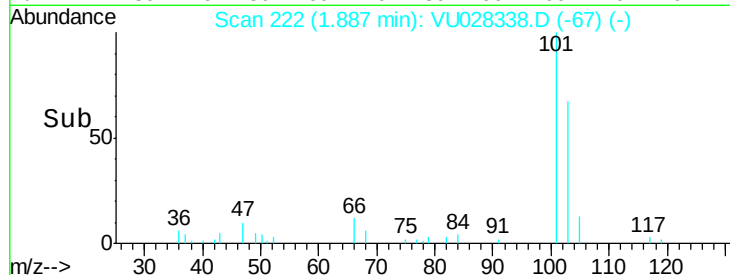
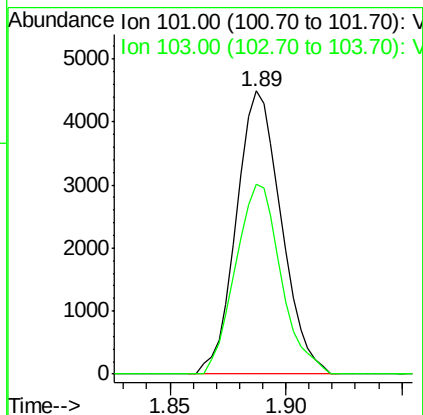
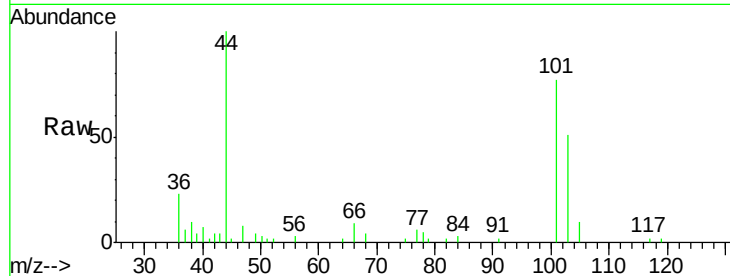
Trichlorofluoromethane
Concen: 0.285 ug/l
RT: 1.89 min Scan# 222
Delta R.T. -0.00 min
Lab File: VU028338.D
Acq: 26 Nov 2018 14:57

Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT4-2018

Tgt Ion:101 Resp: 6029
Ion Ratio Lower Upper
101 100
103 67.0 51.4 77.0

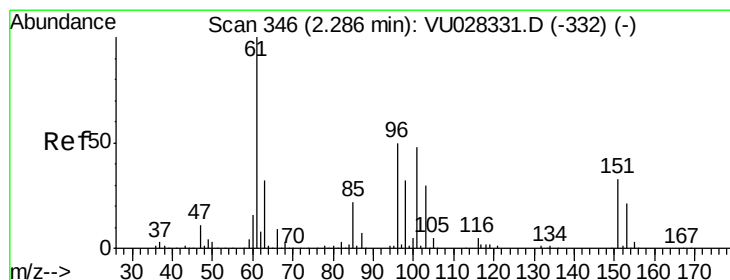
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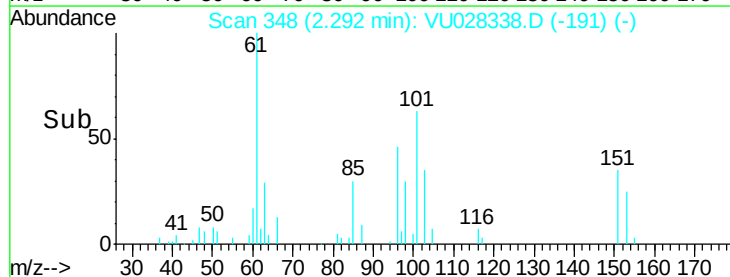
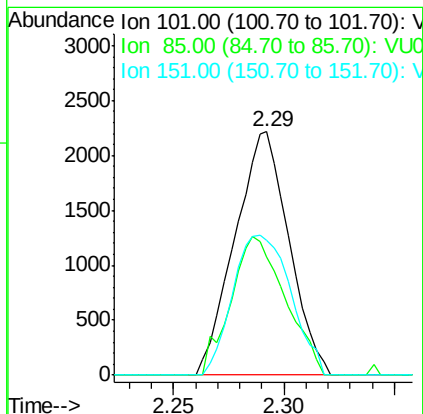
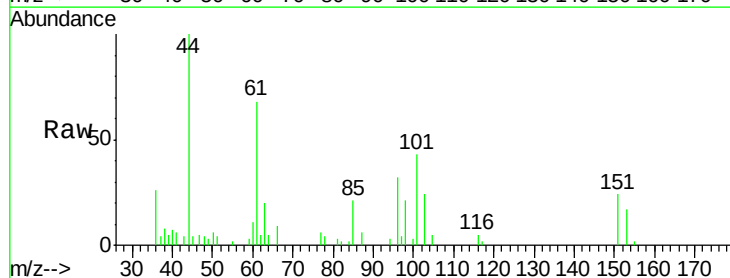
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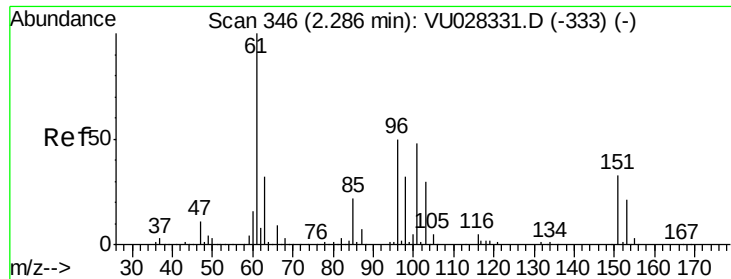


#8

1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.308 ug/l
RT: 2.29 min Scan# 348
Delta R.T. 0.01 min
Lab File: VU028338.D
Acq: 26 Nov 2018 14:57

Tgt Ion:101 Resp: 3750
Ion Ratio Lower Upper
101 100
85 57.5 36.7 55.1#
151 61.7 55.8 83.6





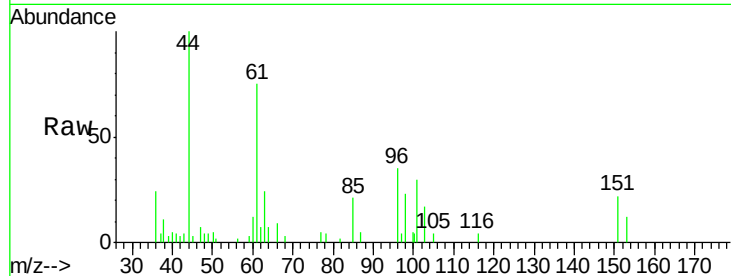
#9
1,1-Dichloroethene
Concen: 0.258 ug/l
RT: 2.28 min Scan# 345
Delta R.T. -0.00 min
Lab File: VU028338.D
Acq: 26 Nov 2018 14:57

Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT4-2018

Tgt Ion	Ratio	Lower	Upper
96	100		
61	215.9	0.0	597.6
98	67.0	0.0	127.6

Manual Integrations
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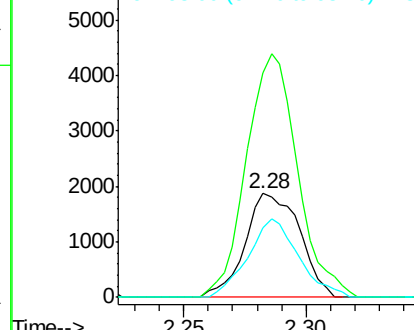
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Abundance Ion 96.00 (95.70 to 96.70): VU028338.D (-191) (-)

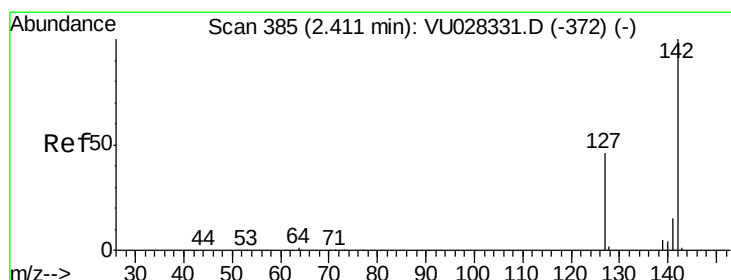
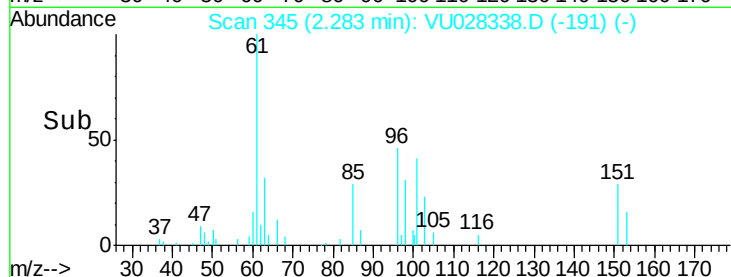
Ion 61.00 (60.70 to 61.70): VU028338.D (-191) (-)

Ion 98.00 (97.70 to 98.70): VU028338.D (-191) (-)



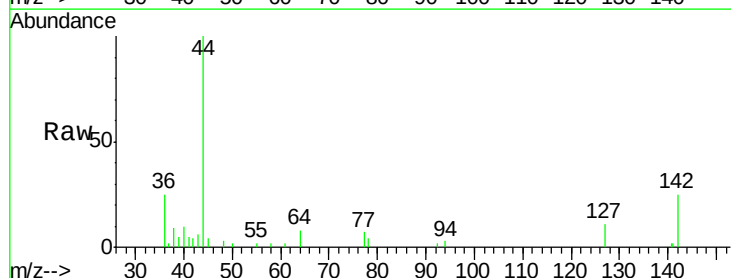
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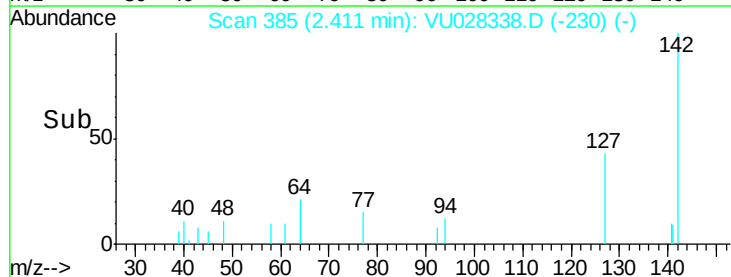
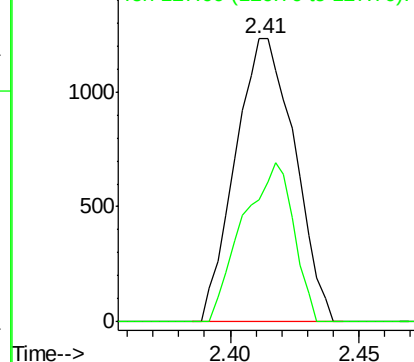
#10
Iodomethane
Concen: 0.260 ug/l
RT: 2.41 min Scan# 385
Delta R.T. -0.00 min
Lab File: VU028338.D
Acq: 26 Nov 2018 14:57

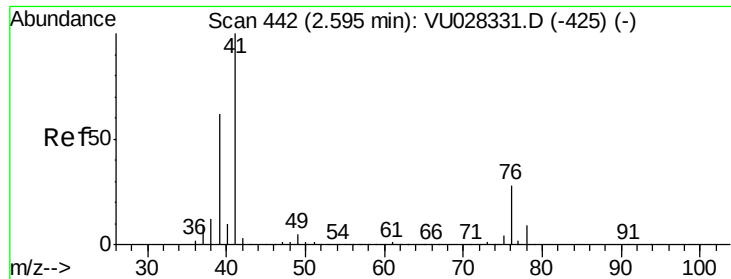
Tgt Ion	Ratio	Lower	Upper
142	100		
127	48.5	36.4	54.6



Abundance Ion 142.00 (141.70 to 142.70): VU028338.D (-230) (-)

Ion 127.00 (126.70 to 127.70): VU028338.D (-230) (-)





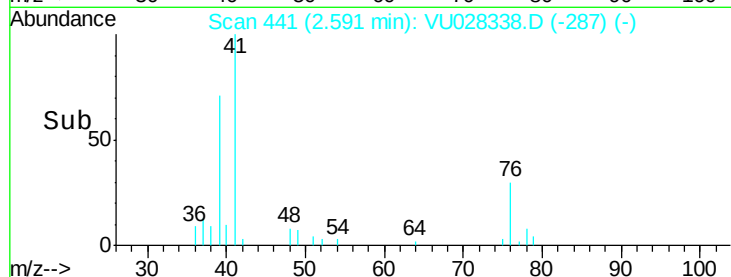
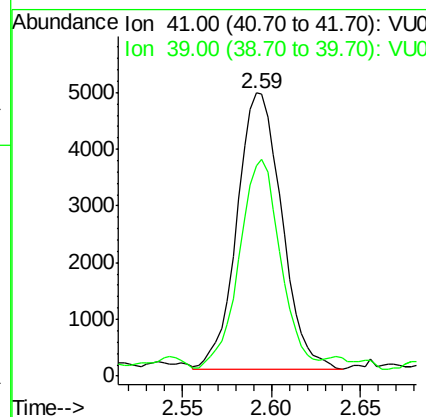
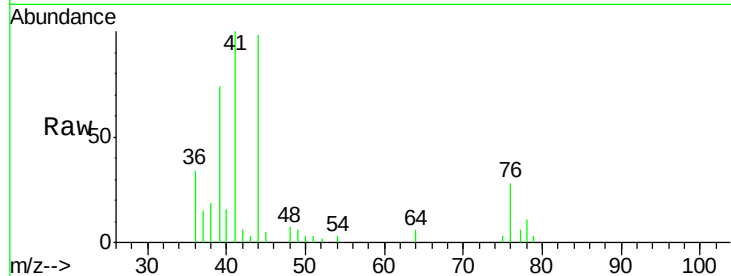
#11
 Allyl Chloride
 Concen: 0.300 ug/l
 RT: 2.59 min Scan# 441
 Delta R.T. -0.00 min
 Lab File: VU028338.D
 Acq: 26 Nov 2018 14:57

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-03-QT4-2018

Tgt Ion: 41 Resp: 8522
 Ion Ratio Lower Upper
 41 100
 39 69.3 50.8 76.2

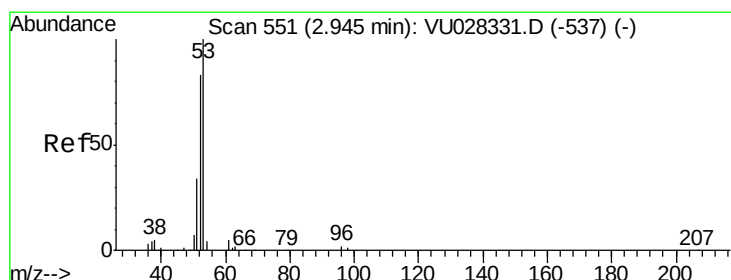
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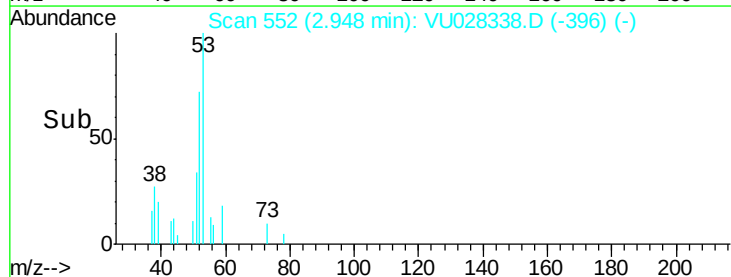
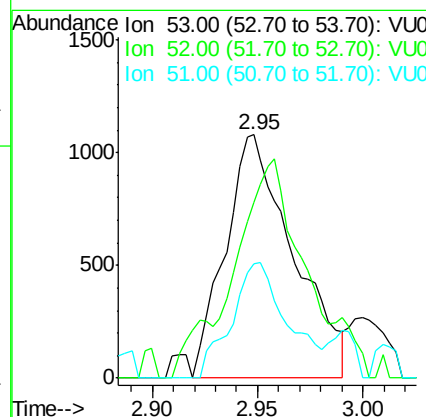
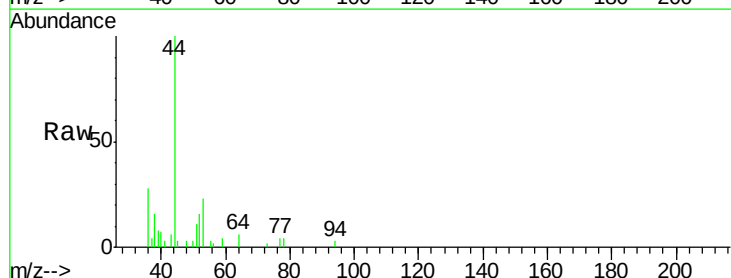
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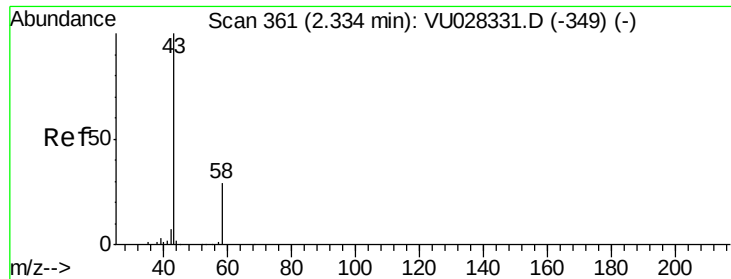
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#12
 Acrylonitrile
 Concen: 0.674 ug/l
 RT: 2.95 min Scan# 552
 Delta R.T. 0.00 min
 Lab File: VU028338.D
 Acq: 26 Nov 2018 14:57

Tgt Ion: 53 Resp: 2413
 Ion Ratio Lower Upper
 53 100
 52 97.3 69.3 103.9
 51 39.3 27.8 41.8





#13

Acetone

Concen: 2.399 ug/l m

RT: 2.35 min Scan# 366

Delta R.T. 0.02 min

Lab File: VU028338.D

Acq: 26 Nov 2018 14:57

Tgt Ion: 43 Resp: 7961

Ion Ratio Lower Upper

43 100

58 31.8 23.1 34.7

Instrument :

MSVOA_U

ClientSampleId :

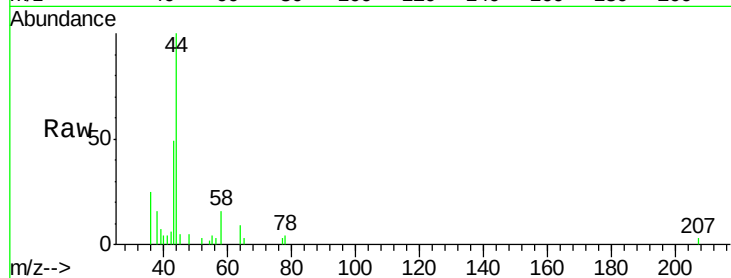
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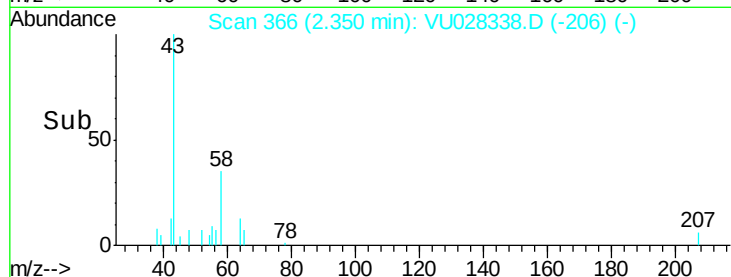
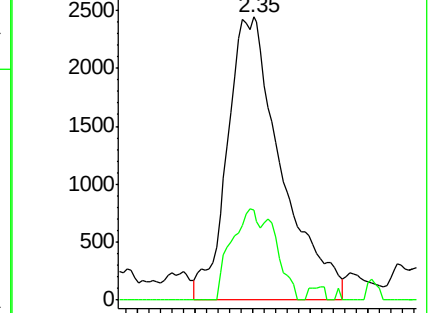
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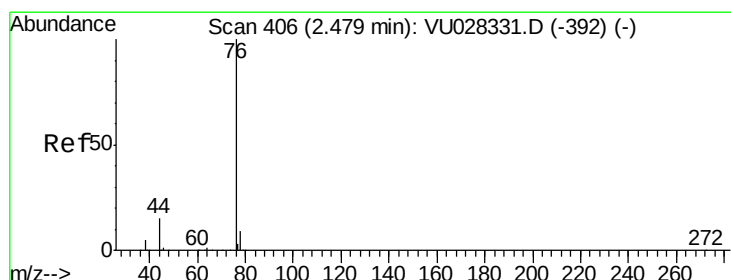
Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



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#14

Carbon Disulfide

Concen: 0.322 ug/l

RT: 2.48 min Scan# 406

Delta R.T. -0.00 min

Lab File: VU028338.D

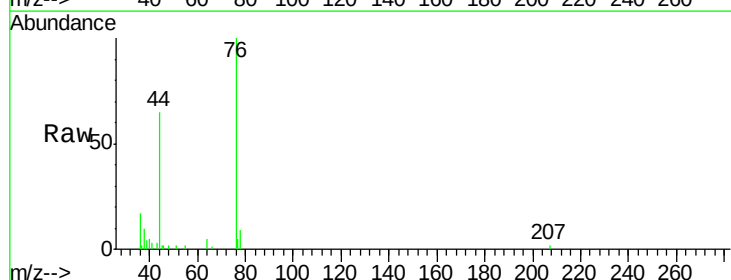
Acq: 26 Nov 2018 14:57

Tgt Ion: 76 Resp: 13755

Ion Ratio Lower Upper

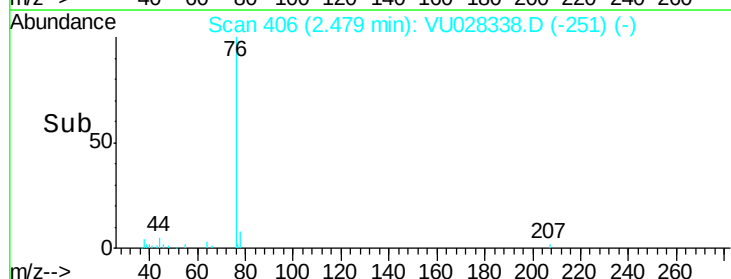
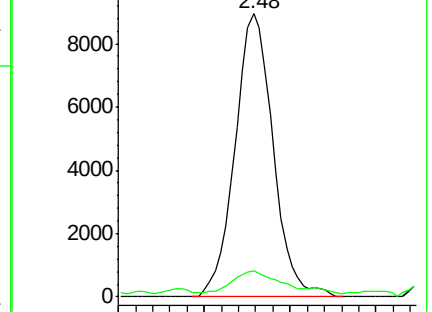
76 100

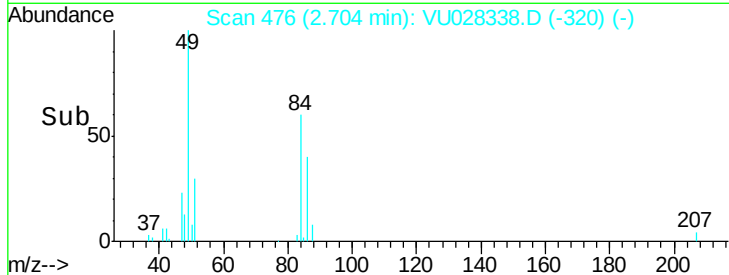
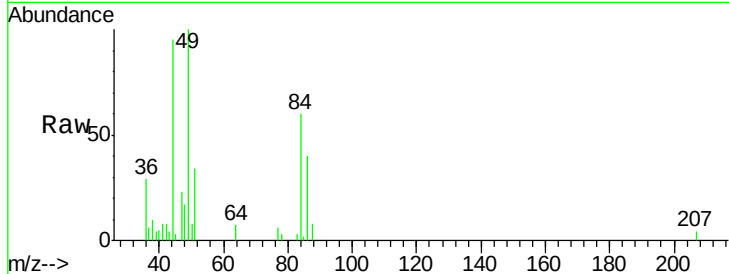
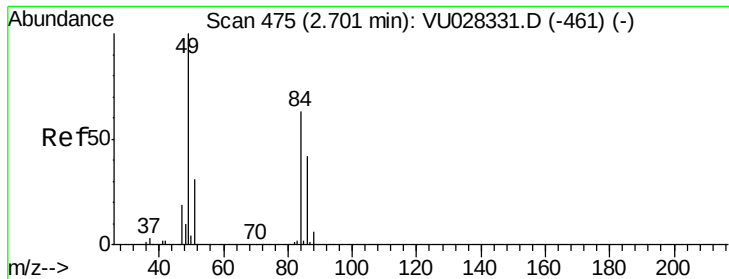
78 7.8 7.4 11.2



Abundance Ion 76.00 (75.70 to 76.70): VU0

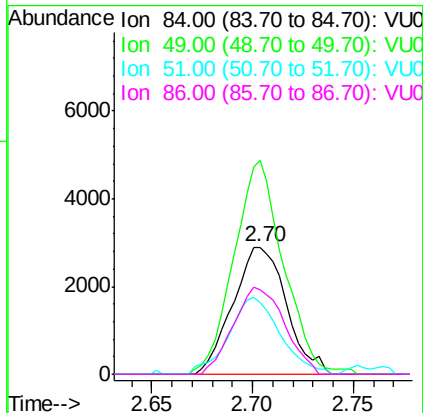
Ion 78.00 (77.70 to 78.70): VU0





#15
Methylene Chloride
Concen: 0.392 ug/l
RT: 2.70 min Scan# 476
Delta R.T. 0.00 min
Lab File: VU028338.D
Acq: 26 Nov 2018 14:57

Tgt Ion:	84	Resp:	5369
Ion	Ratio	Lower	Upper
84	100		
49	167.7	127.7	191.5
51	56.7	0.0	98.2
86	66.8	53.1	79.7



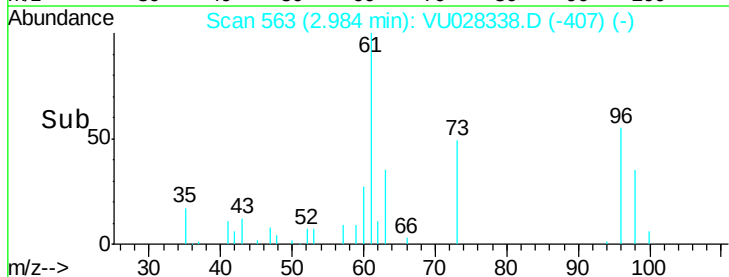
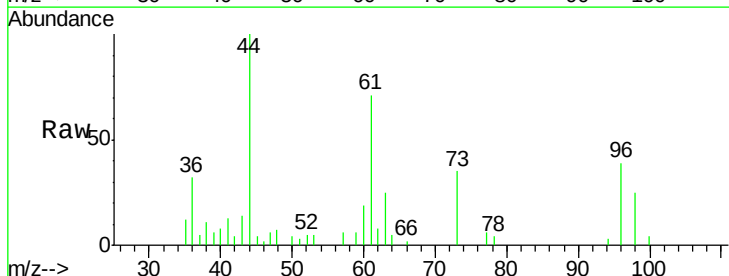
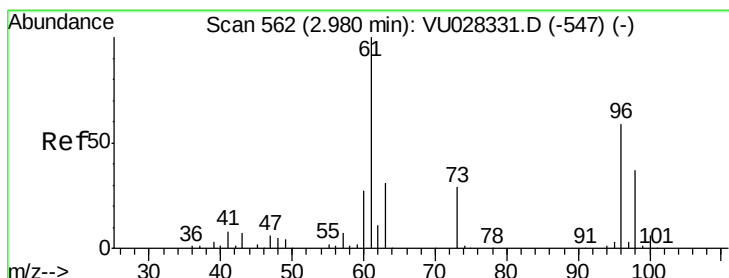
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT4-2018

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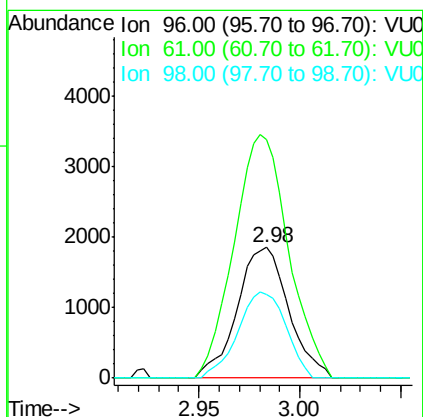
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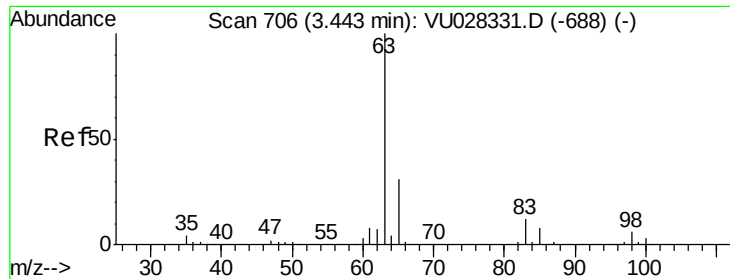
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#16
trans-1,2-Dichloroethene
Concen: 0.264 ug/l
RT: 2.98 min Scan# 563
Delta R.T. 0.00 min
Lab File: VU028338.D
Acq: 26 Nov 2018 14:57

Tgt Ion:	96	Resp:	3318
Ion	Ratio	Lower	Upper
96	100		
61	182.9	136.4	204.6
98	64.2	49.8	74.8





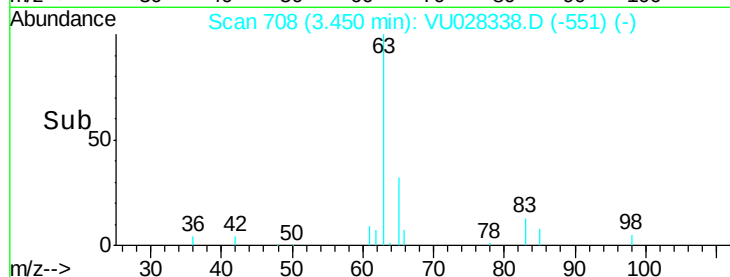
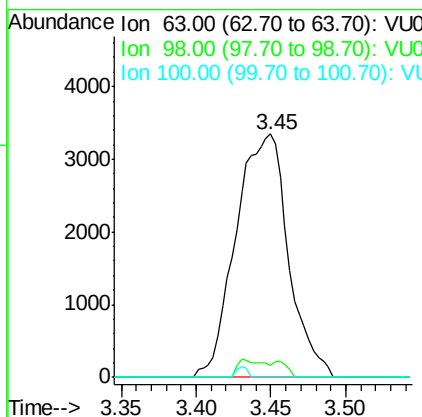
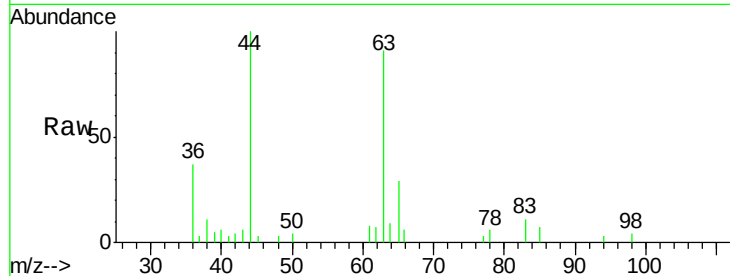
#17
 1,1-Dichloroethane
 Concen: 0.291 ug/l
 RT: 3.45 min Scan# 708
 Delta R.T. 0.01 min
 Lab File: VU028338.D
 Acq: 26 Nov 2018 14:57

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-03-QT4-2018

Tgt Ion	Ratio	Lower	Upper
63	100		
98	4.8	3.0	9.0
100	0.0	1.8	5.3#

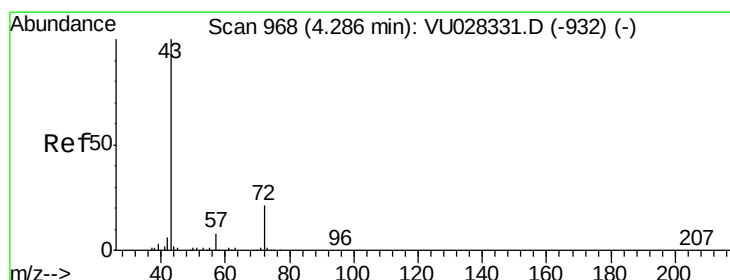
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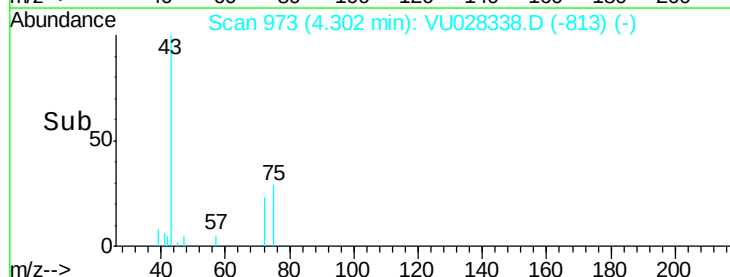
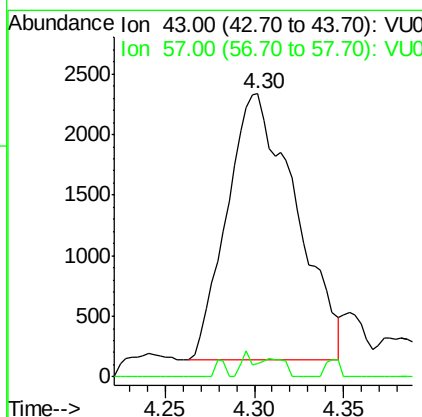
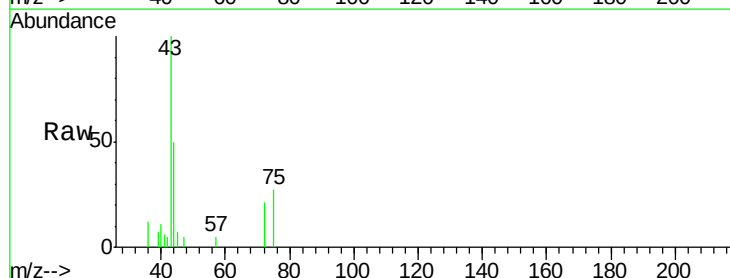
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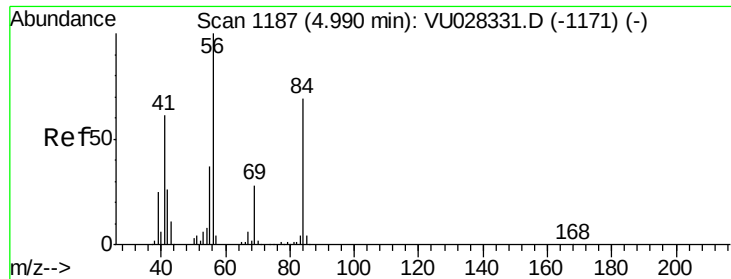
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#18
 2-Butanone
 Concen: 1.189 ug/l
 RT: 4.30 min Scan# 973
 Delta R.T. 0.02 min
 Lab File: VU028338.D
 Acq: 26 Nov 2018 14:57

Tgt Ion	Ratio	Lower	Upper
43	100		
57	4.8	0.0	15.0





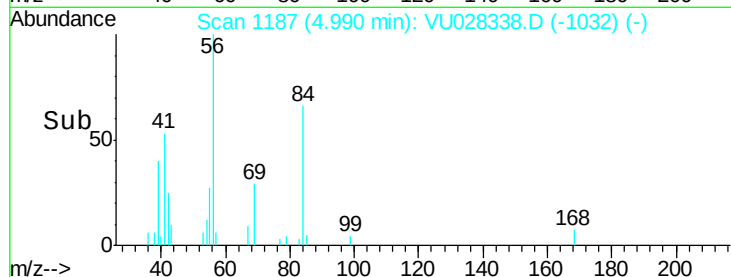
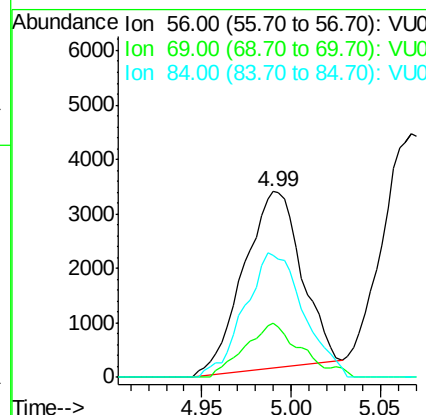
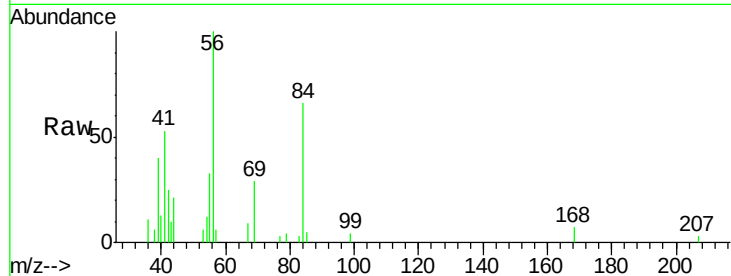
#19
Cyclohexane
Concen: 0.304 ug/l
RT: 4.99 min Scan# 1187
Delta R.T. -0.00 min
Lab File: VU028338.D
Acq: 26 Nov 2018 14:57

Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT4-2018

Tgt Ion	Ratio	Lower	Upper
56	100		
69	29.9	25.0	37.6
84	71.1	62.6	94.0

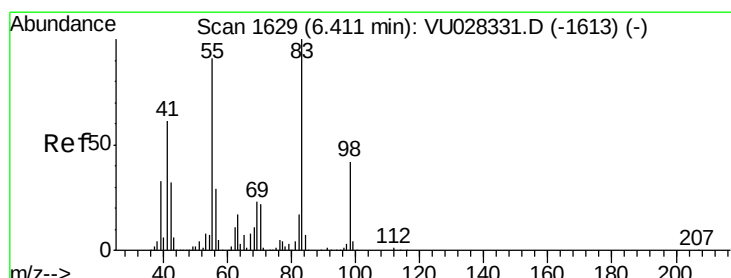
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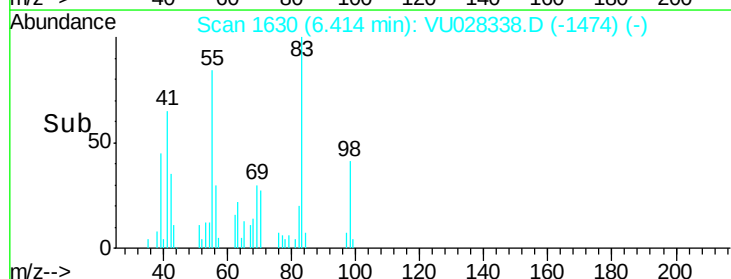
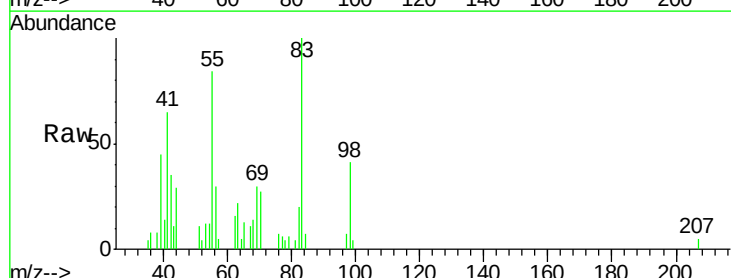
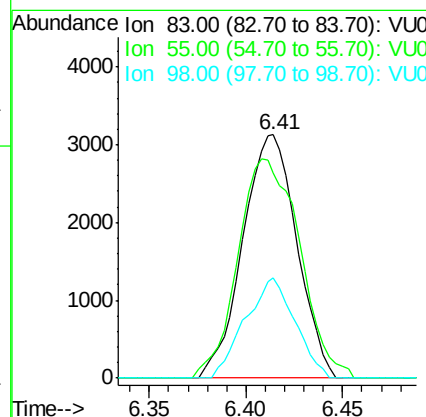
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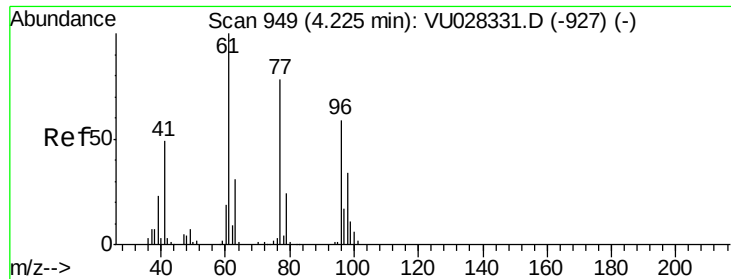
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#20
Methylcyclohexane
Concen: 0.255 ug/l
RT: 6.41 min Scan# 1630
Delta R.T. 0.00 min
Lab File: VU028338.D
Acq: 26 Nov 2018 14:57

Tgt Ion	Ratio	Lower	Upper
83	100		
55	102.8	72.6	108.8
98	37.8	33.8	50.8





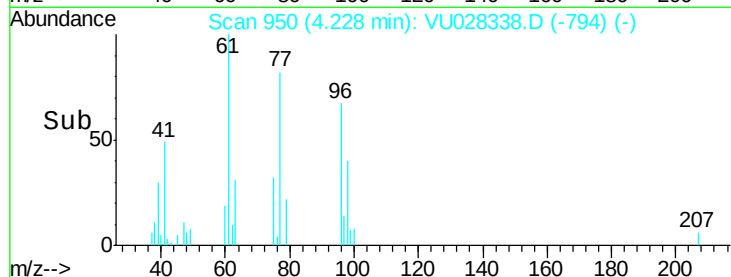
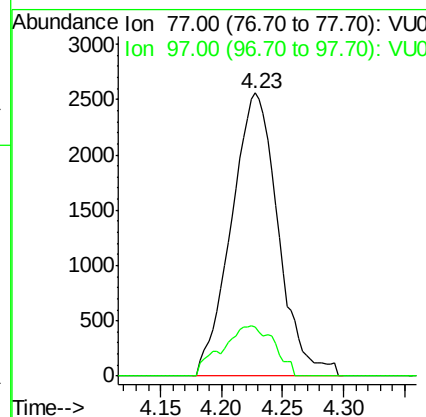
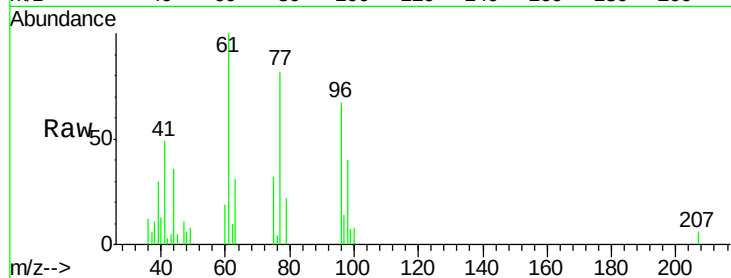
#21
 2,2-Dichloropropane
 Concen: 0.302 ug/l
 RT: 4.23 min Scan# 950
 Delta R.T. 0.00 min
 Lab File: VU028338.D
 Acq: 26 Nov 2018 14:57

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-03-QT4-2018

Tgt Ion: 77 Resp: 6802
 Ion Ratio Lower Upper
 77 100
 97 19.7 17.4 26.2

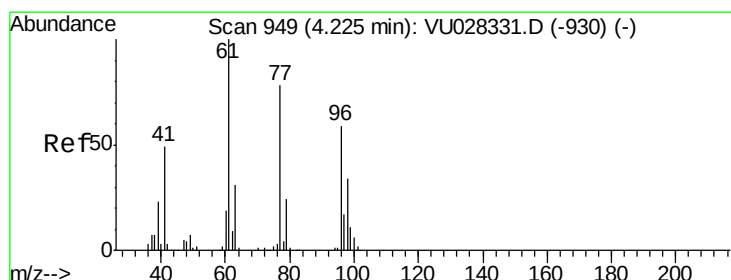
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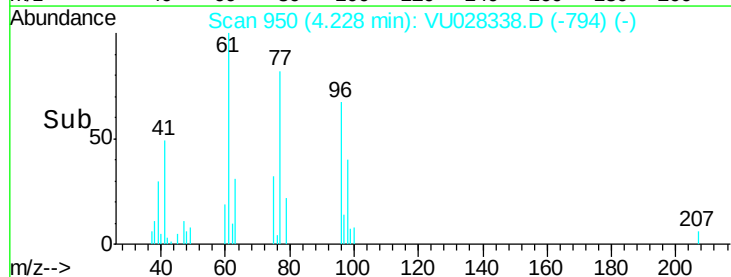
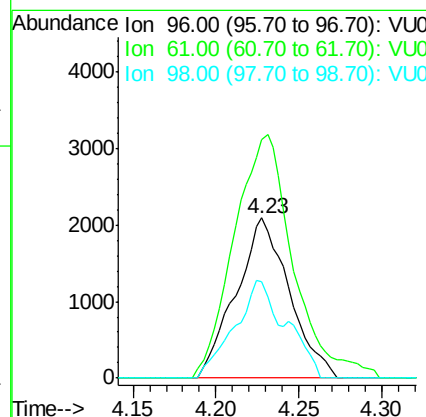
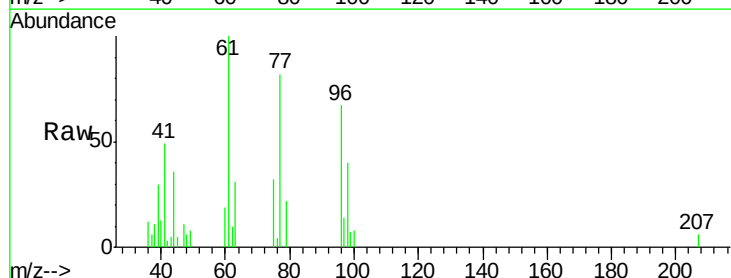
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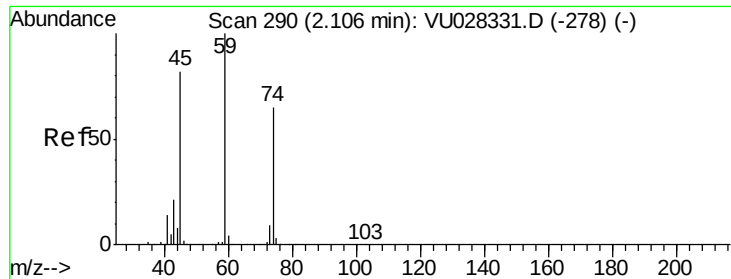
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#22
 cis-1,2-Dichloroethene
 Concen: 0.318 ug/l
 RT: 4.23 min Scan# 950
 Delta R.T. 0.00 min
 Lab File: VU028338.D
 Acq: 26 Nov 2018 14:57

Tgt Ion: 96 Resp: 4678
 Ion Ratio Lower Upper
 96 100
 61 168.4 0.0 423.0
 98 58.7 30.3 91.0





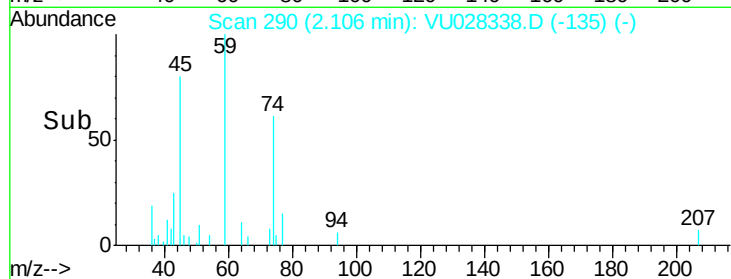
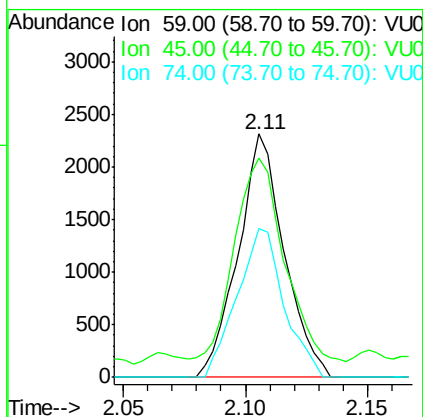
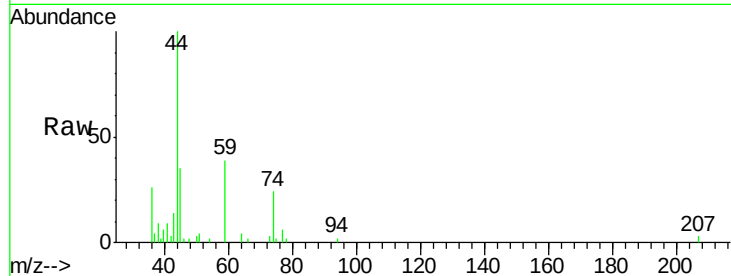
#23
Diethyl Ether
Concen: 0.268 ug/l
RT: 2.11 min Scan# 290
Delta R.T. -0.00 min
Lab File: VU028338.D
Acq: 26 Nov 2018 14:57

Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT4-2018

Tgt Ion: 59 Resp: 3024
Ion Ratio Lower Upper
59 100
45 90.1 66.4 99.6
74 62.1 52.2 78.4

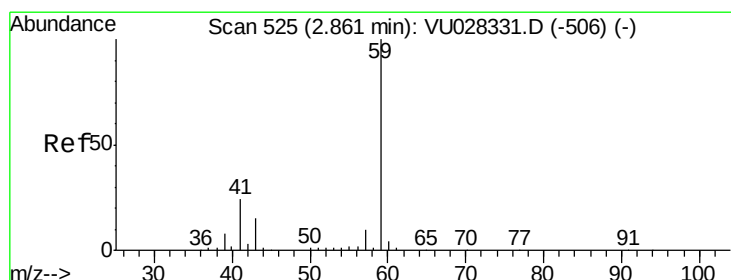
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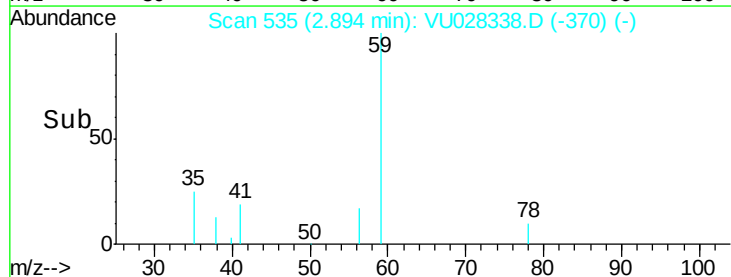
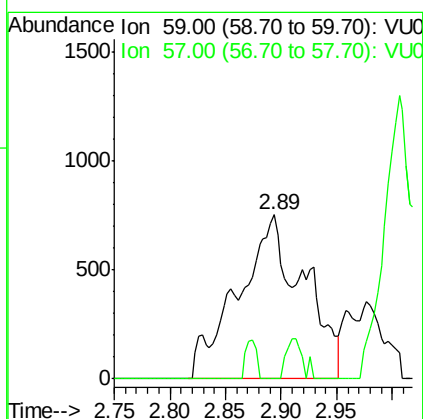
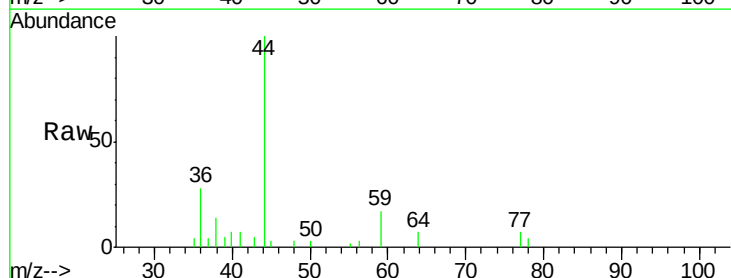
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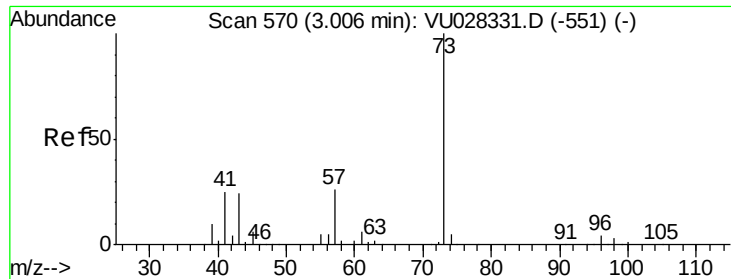
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#24
tert-Butyl Alcohol
Concen: 2.730 ug/l m
RT: 2.89 min Scan# 535
Delta R.T. 0.03 min
Lab File: VU028338.D
Acq: 26 Nov 2018 14:57

Tgt Ion: 59 Resp: 3089
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#





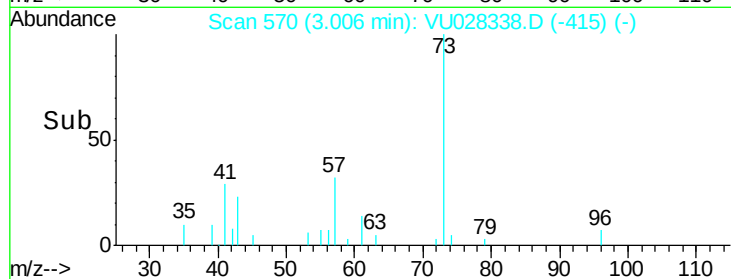
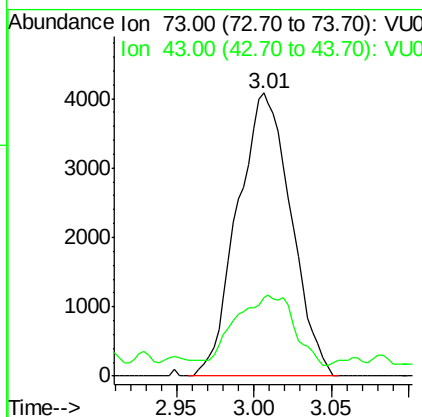
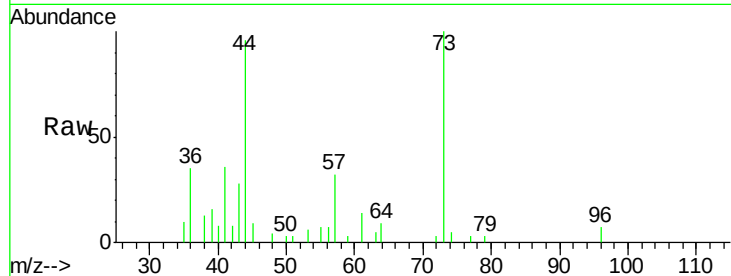
#25
Methyl tert-Butyl Ether
Concen: 0.294 ug/l
RT: 3.01 min Scan# 570
Delta R.T. -0.00 min
Lab File: VU028338.D
Acq: 26 Nov 2018 14:57

Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT4-2018

Tgt Ion: 73 Resp: 9816
Ion Ratio Lower Upper
73 100
43 27.1 18.5 27.7

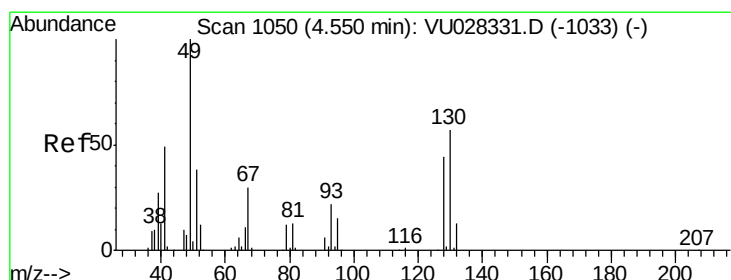
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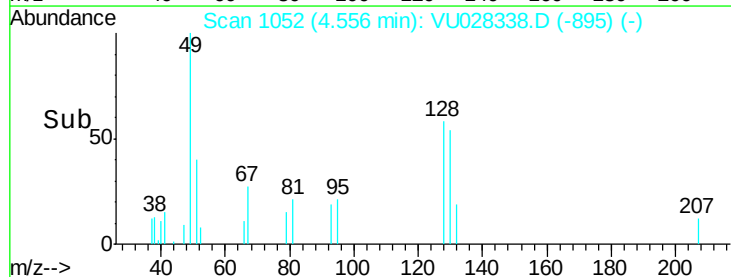
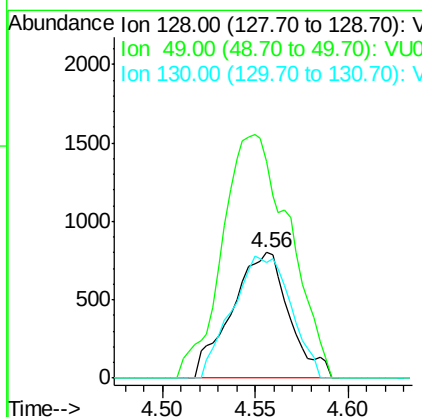
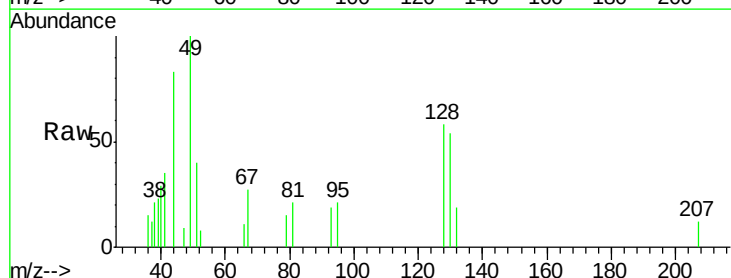
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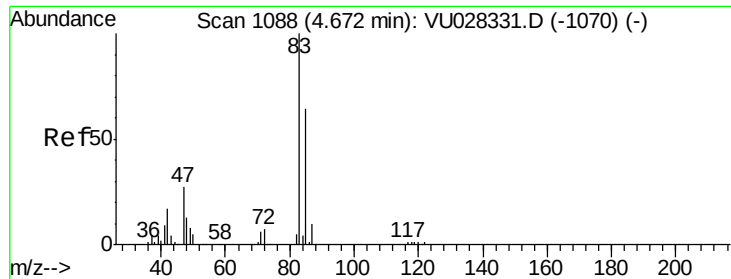
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#26
Bromochloromethane
Concen: 0.308 ug/l
RT: 4.56 min Scan# 1052
Delta R.T. 0.01 min
Lab File: VU028338.D
Acq: 26 Nov 2018 14:57

Tgt Ion: 128 Resp: 1729
Ion Ratio Lower Upper
128 100
49 226.0 0.0 457.6
130 98.5 101.4 152.2#





#27

Chloroform

Concen: 0.388 ug/l

RT: 4.67 min Scan# 1088

Delta R.T. -0.00 min

Lab File: VU028338.D

Acq: 26 Nov 2018 14:57

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT4-2018

Tgt Ion: 83 Resp: 10506

Ion Ratio Lower Upper

83 100

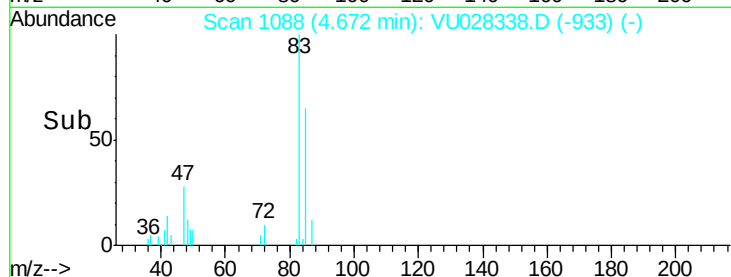
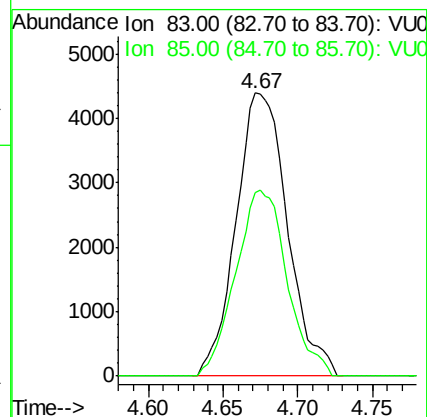
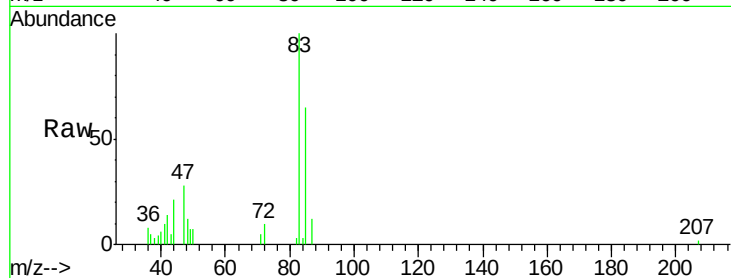
85 65.0 0.0 128.0

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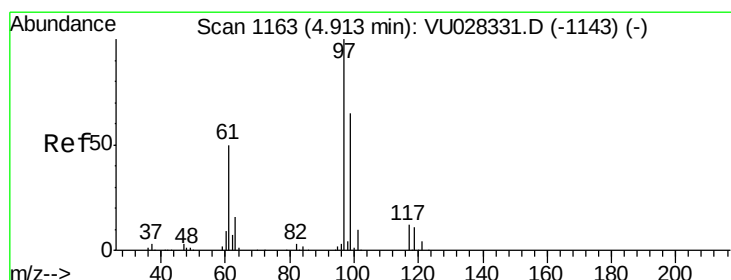
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#28

1,1,1-Trichloroethane

Concen: 0.278 ug/l

RT: 4.92 min Scan# 1164

Delta R.T. 0.00 min

Lab File: VU028338.D

Acq: 26 Nov 2018 14:57

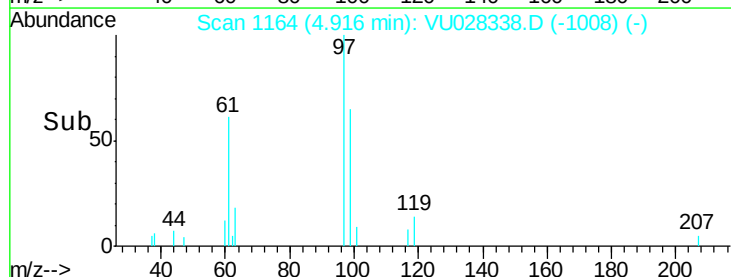
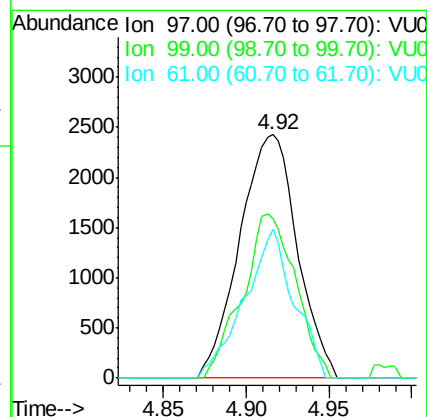
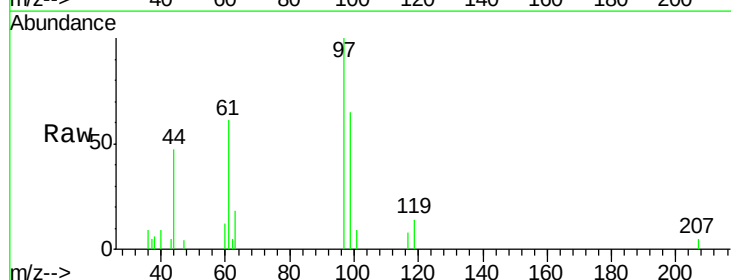
Tgt Ion: 97 Resp: 5870

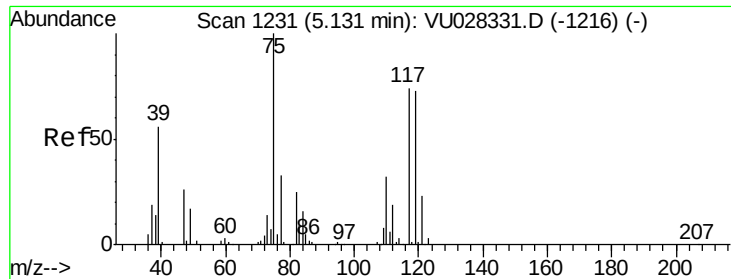
Ion Ratio Lower Upper

97 100

99 62.0 32.2 96.6

61 52.7 24.9 74.7





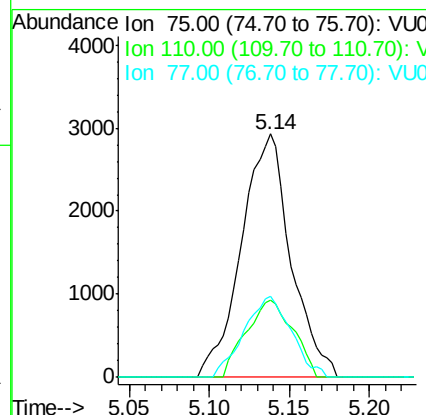
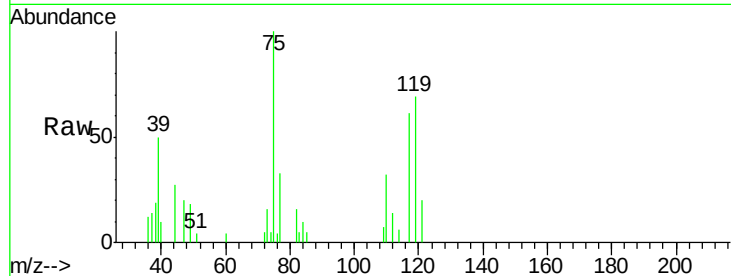
#29
 1,1-Dichloropropene
 Concen: 0.306 ug/l
 RT: 5.14 min Scan# 1233
 Delta R.T. 0.01 min
 Lab File: VU028338.D
 Acq: 26 Nov 2018 14:57

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-03-QT4-2018

Tgt Ion	Ratio	Lower	Upper
75	100		
110	30.1	15.8	47.3
77	31.7	25.4	38.0

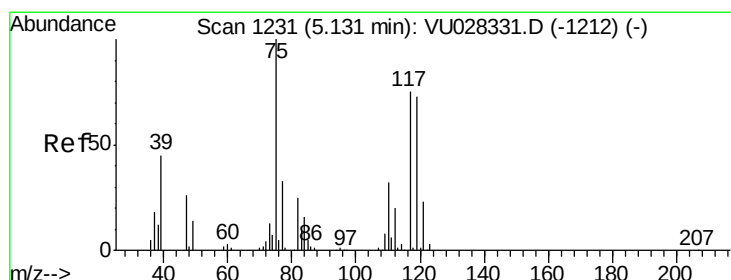
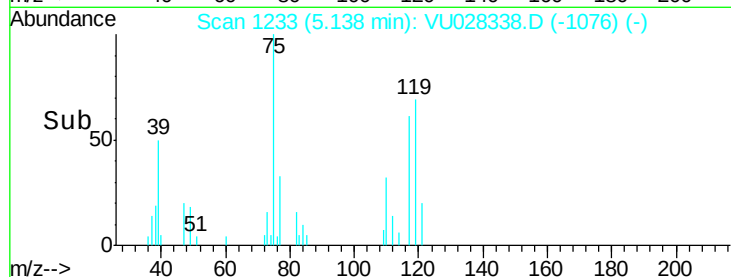
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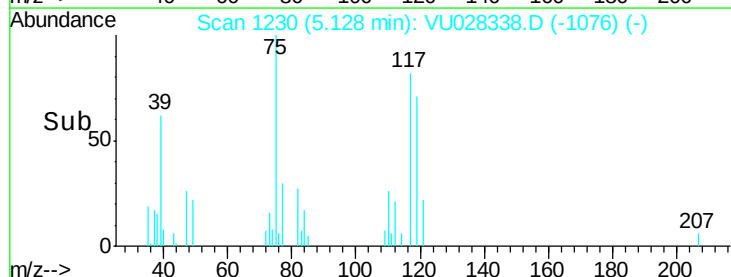
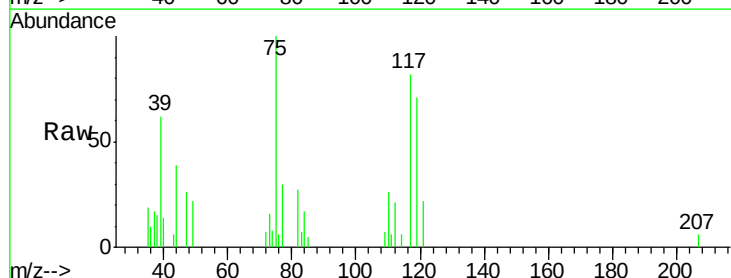
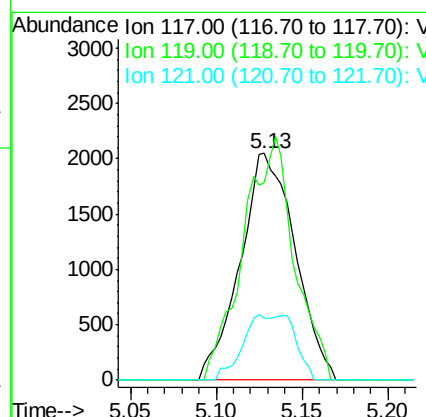
MMDadoda

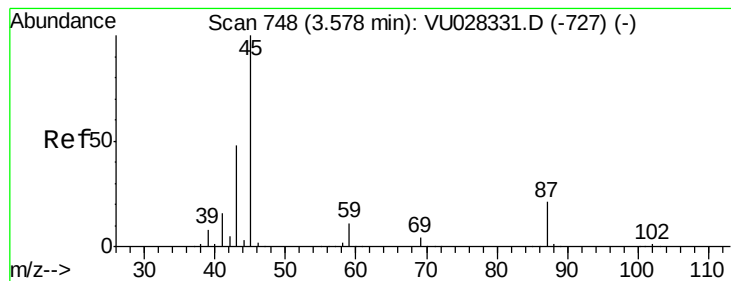
11/30/2018 2:33:42 PM



#30
 Carbon Tetrachloride
 Concen: 0.267 ug/l
 RT: 5.13 min Scan# 1230
 Delta R.T. -0.00 min
 Lab File: VU028338.D
 Acq: 26 Nov 2018 14:57

Tgt Ion	Ratio	Lower	Upper
117	100		
119	87.1	78.2	117.4
121	27.1	24.7	37.1





#31

Isopropyl Ether

Concen: 0.281 ug/l

RT: 3.58 min Scan# 750

Delta R.T. 0.01 min

Lab File: VU028338.D

Acq: 26 Nov 2018 14:57

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT4-2018

Tgt Ion: 45 Resp: 14122

Ion Ratio Lower Upper

45 100

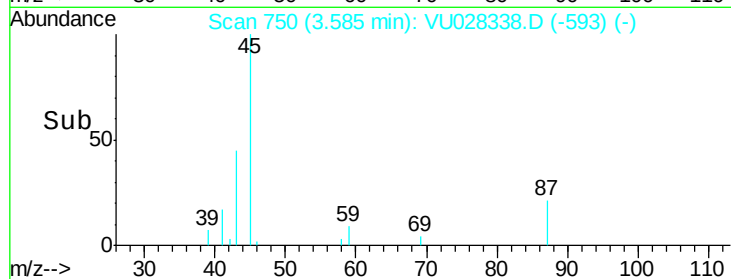
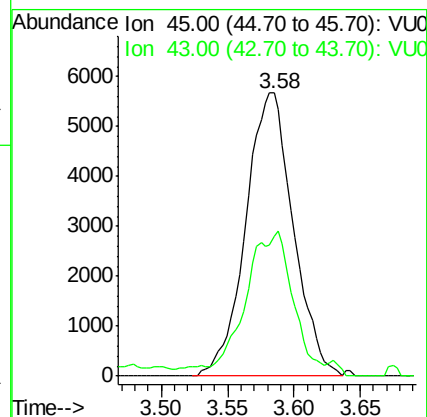
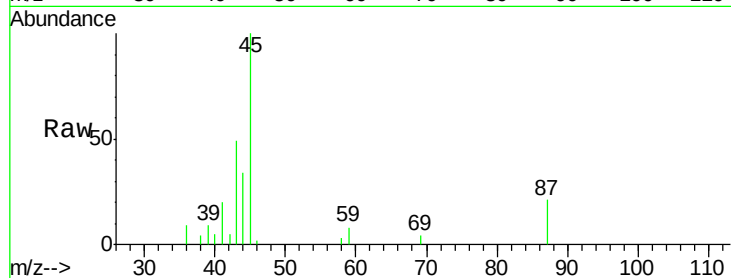
43 46.3 24.2 72.6

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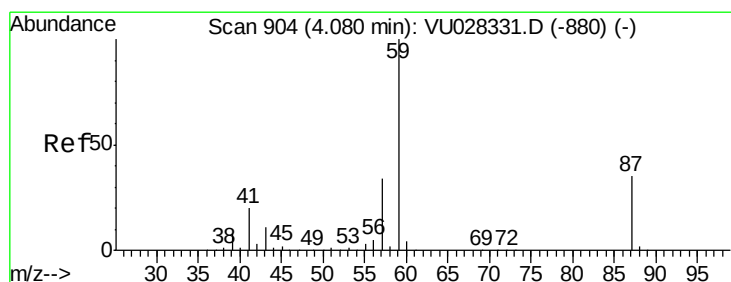
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#32

Ethyl-t-butyl ether

Concen: 0.290 ug/l

RT: 4.08 min Scan# 904

Delta R.T. -0.00 min

Lab File: VU028338.D

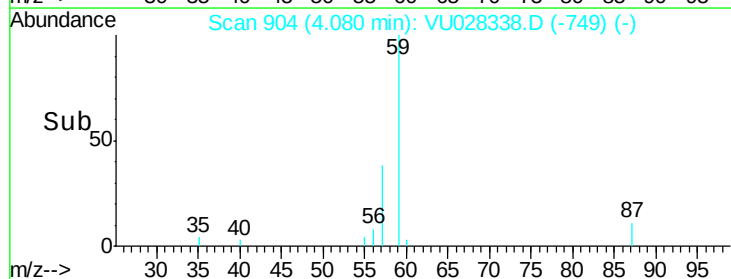
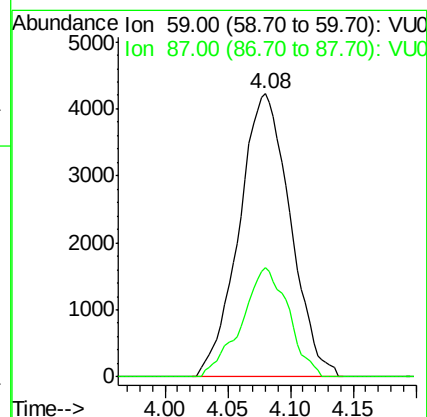
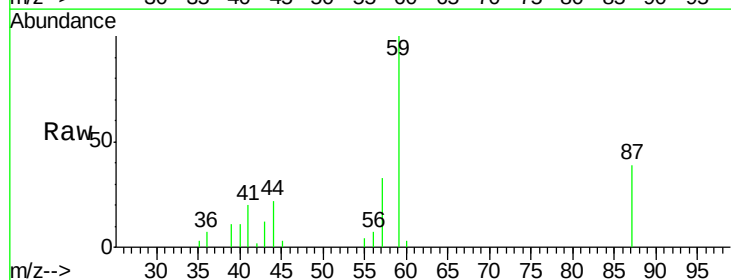
Acq: 26 Nov 2018 14:57

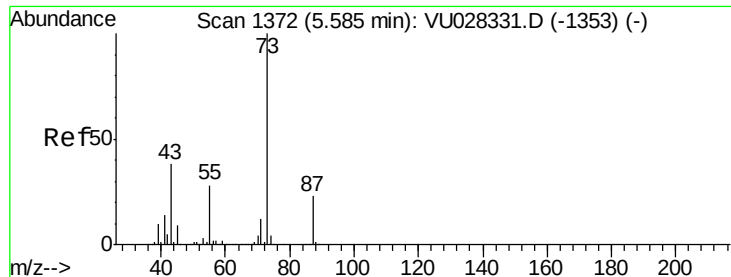
Tgt Ion: 59 Resp: 11991

Ion Ratio Lower Upper

59 100

87 35.4 28.2 42.4





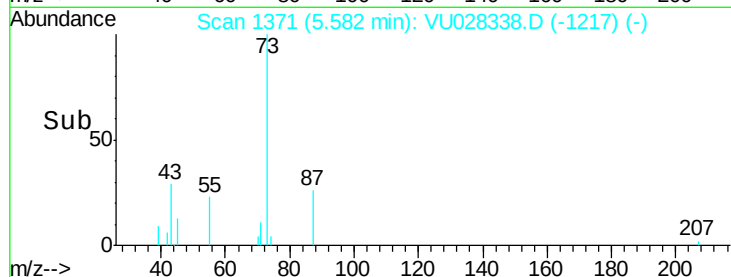
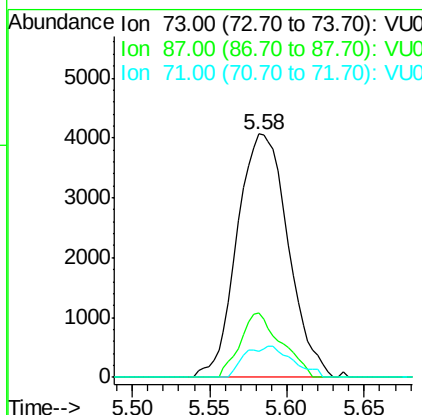
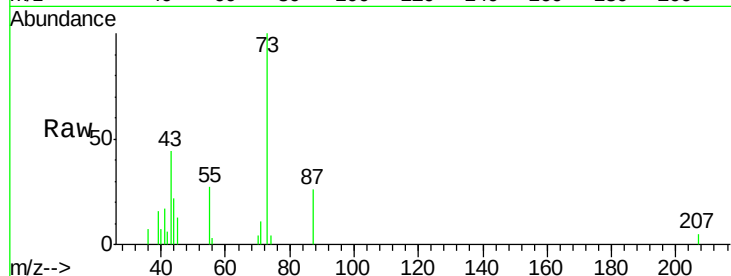
#33
Tert-Amyl methyl ether
Concen: 0.271 ug/l
RT: 5.58 min Scan# 1371
Delta R.T. -0.00 min
Lab File: VU028338.D
Acq: 26 Nov 2018 14:57

Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT4-2018

Tgt Ion	Ratio	Lower	Upper
73	100		
87	21.2	17.6	26.4
71	12.0	9.2	13.8

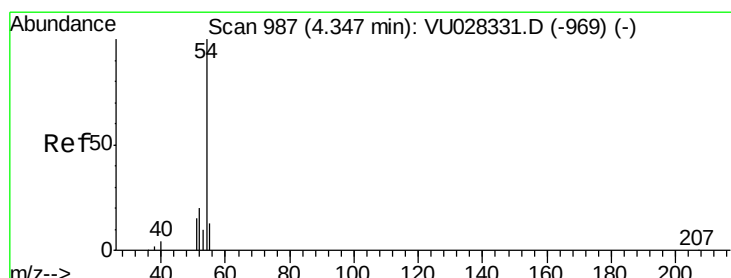
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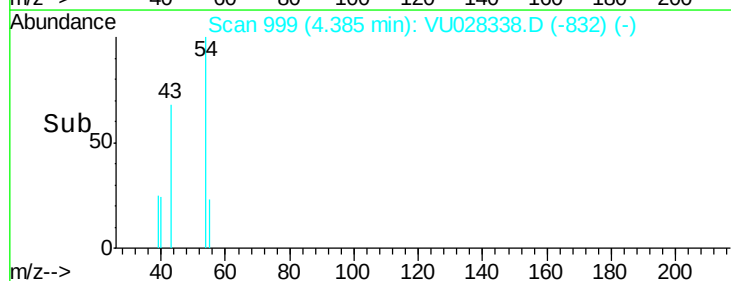
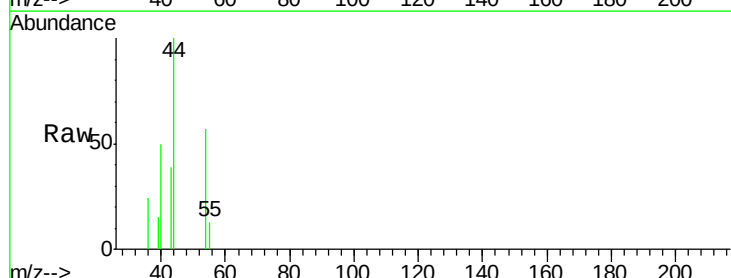
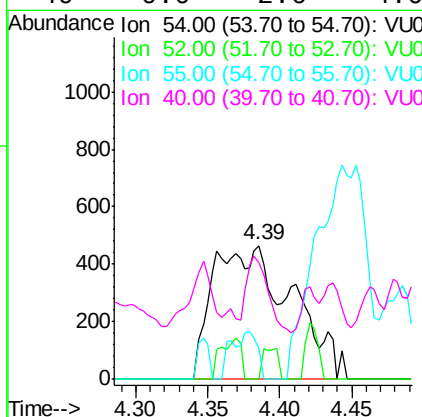
MMDadoda

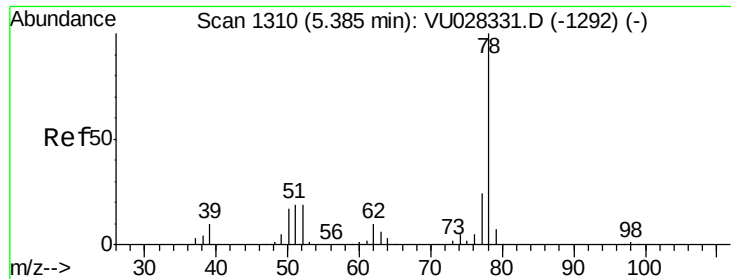
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#34
Propionitrile
Concen: 1.409 ug/l m
RT: 4.39 min Scan# 999
Delta R.T. 0.04 min
Lab File: VU028338.D
Acq: 26 Nov 2018 14:57

Tgt Ion	Ratio	Lower	Upper
54	100		
52	7.7	16.6	25.0#
55	4.1	12.9	19.3#
40	0.0	2.6	4.0#





#35

Benzene

Concen: 0.268 ug/l

RT: 5.39 min Scan# 1312

Delta R.T. 0.01 min

Lab File: VU028338.D

Acq: 26 Nov 2018 14:57

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT4-2018

Tgt Ion: 78 Resp: 15964

Ion Ratio Lower Upper

78 100

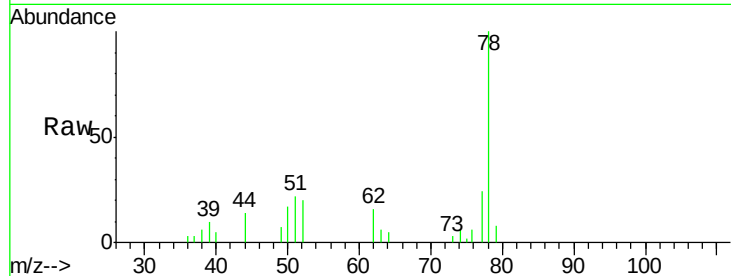
77 23.6 19.5 29.3

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Abundance Ion 78.10 (77.80 to 78.80): VU0

Ion 77.00 (76.70 to 77.70): VU0

5.39

8000

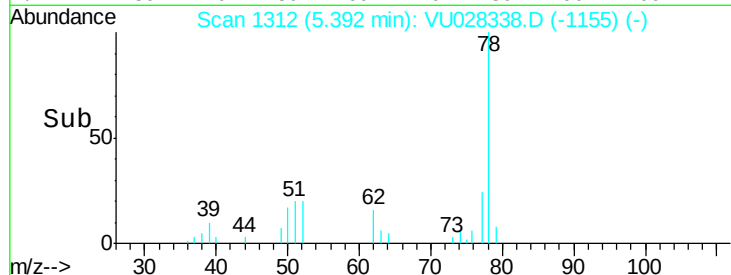
6000

4000

2000

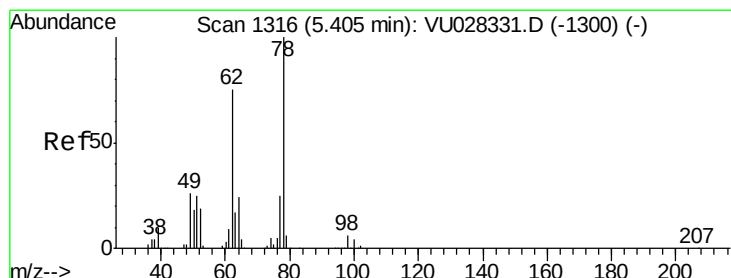
0

Time--> 5.30 5.35 5.40 5.45



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#36

1,2-Dichloroethane

Concen: 0.284 ug/l

RT: 5.41 min Scan# 1318

Delta R.T. 0.01 min

Lab File: VU028338.D

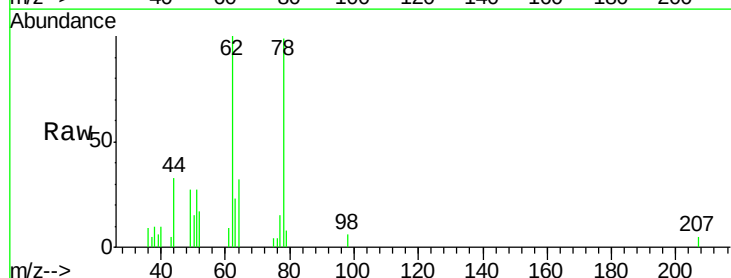
Acq: 26 Nov 2018 14:57

Tgt Ion: 62 Resp: 5071

Ion Ratio Lower Upper

62 100

98 2.2 6.0 9.0#



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

5.41

3000

2500

2000

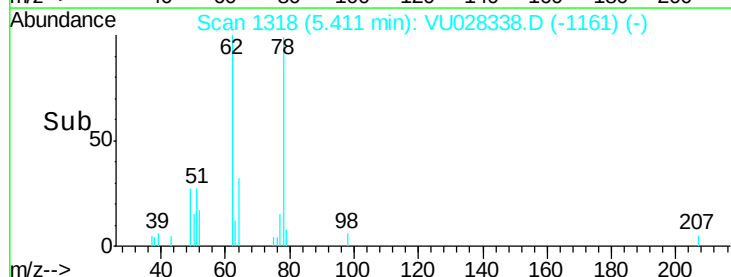
1500

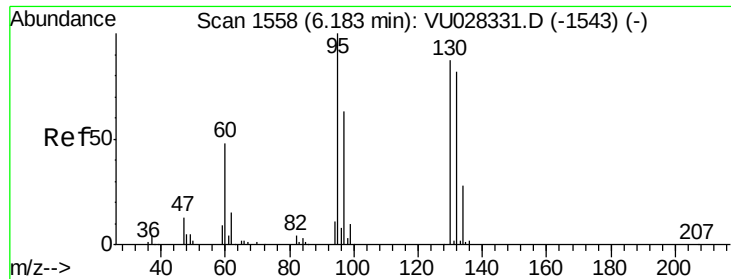
1000

500

0

Time--> 5.35 5.40 5.45





#37

Trichloroethene

Concen: 0.326 ug/l

RT: 6.19 min Scan# 1561

Delta R.T. 0.01 min

Lab File: VU028338.D

Acq: 26 Nov 2018 14:57

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT4-2018

Tgt Ion:130 Resp: 4233

Ion Ratio Lower Upper

130 100

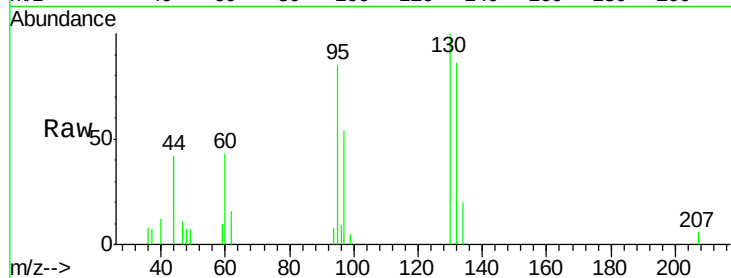
95 85.0 91.5 137.3#

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Abundance Ion 129.90 (129.60 to 130.60): VU028338.D (-1403) (-)

Ion 94.90 (94.60 to 95.60): VU028338.D (-1403) (-)

2500

2000

1500

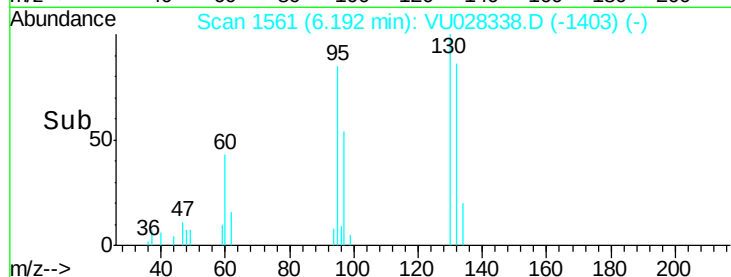
1000

500

0

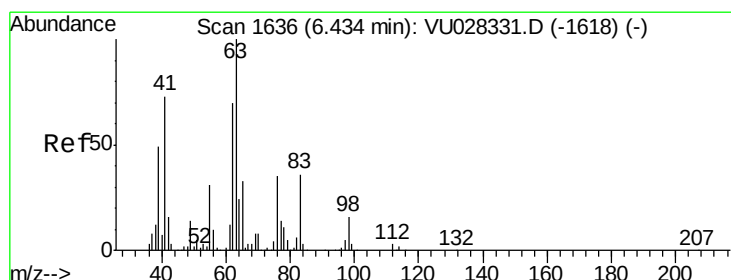
6.15 6.20 6.25

Time-->



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#38

1,2-Dichloropropane

Concen: 0.289 ug/l

RT: 6.43 min Scan# 1636

Delta R.T. -0.00 min

Lab File: VU028338.D

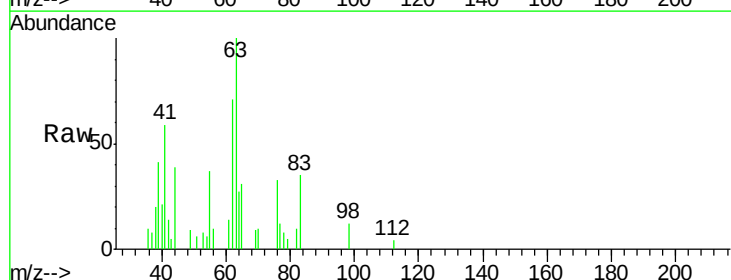
Acq: 26 Nov 2018 14:57

Tgt Ion: 63 Resp: 4912

Ion Ratio Lower Upper

63 100

65 31.0 26.2 39.4



Abundance Ion 63.00 (62.70 to 63.70): VU028338.D (-1481) (-)

Ion 65.00 (64.70 to 65.70): VU028338.D (-1481) (-)

3000

2500

2000

1500

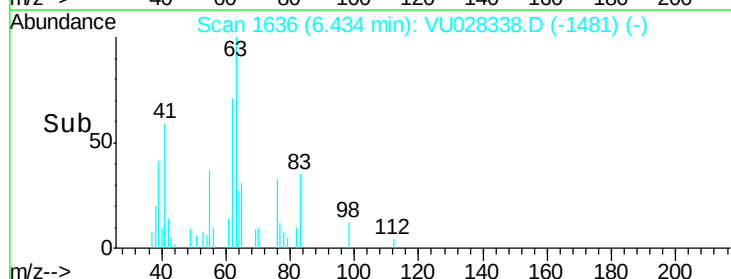
1000

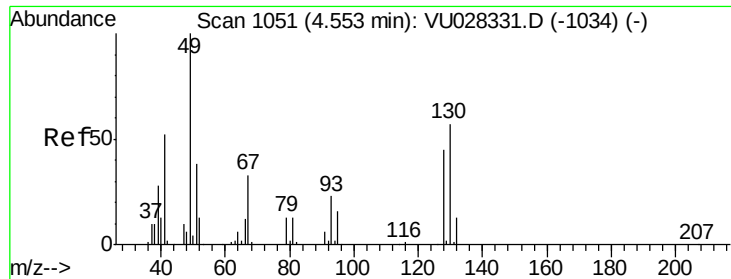
500

0

6.40 6.45 6.50

Time-->





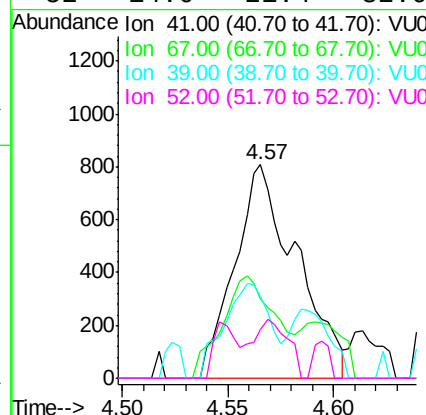
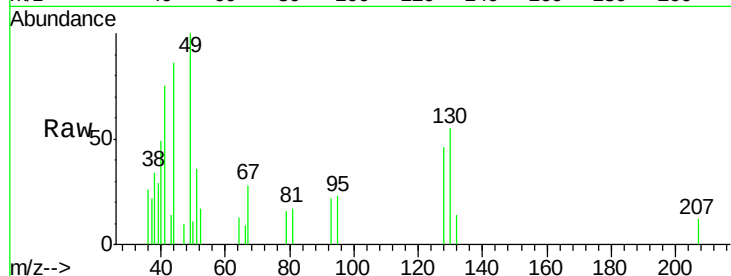
#39
Methacrylonitrile
Concen: 0.246 ug/l
RT: 4.57 min Scan# 1055
Delta R.T. 0.01 min
Lab File: VU028338.D
Acq: 26 Nov 2018 14:57

Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT4-2018

Tgt Ion	Ratio	Lower	Upper
41	100		
67	41.9	48.2	72.4#
39	33.1	42.9	64.3#
52	14.0	21.4	32.0#

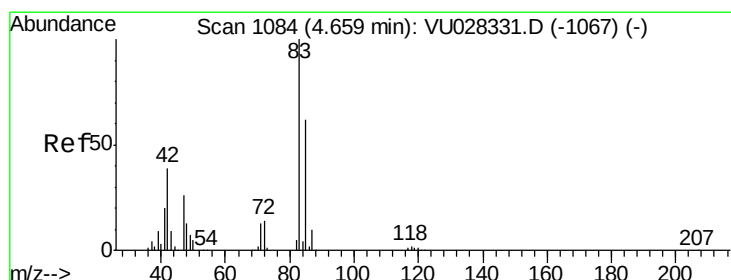
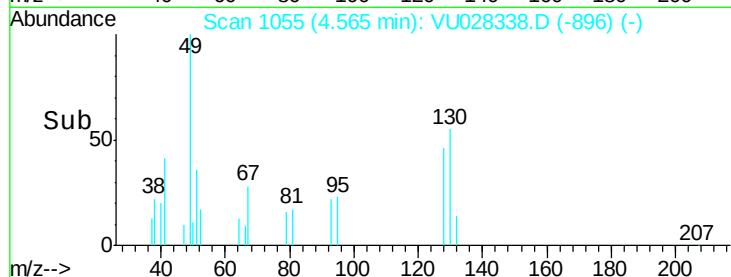
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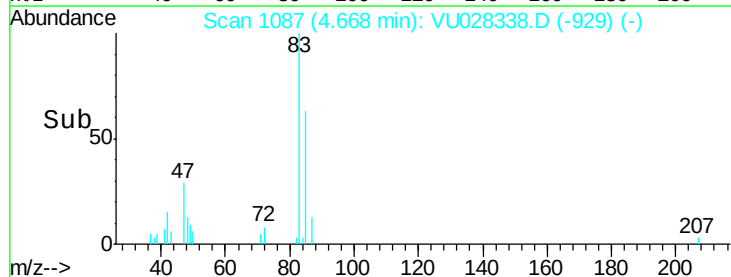
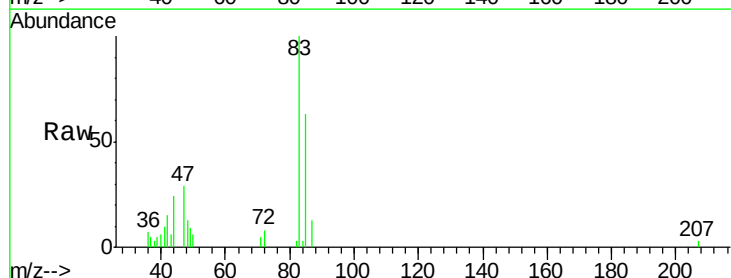
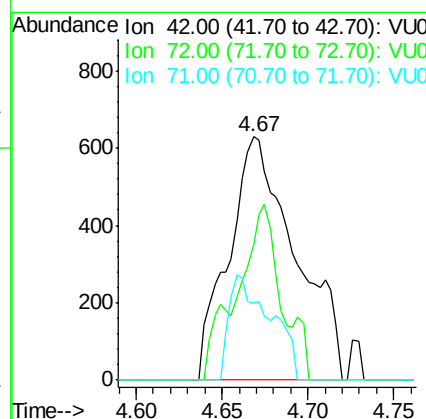
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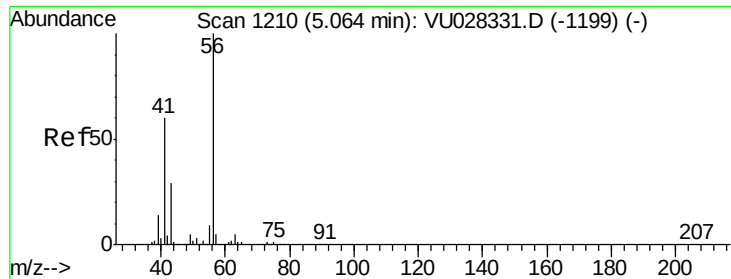
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#41
Tetrahydrofuran
Concen: 0.509 ug/l
RT: 4.67 min Scan# 1087
Delta R.T. 0.01 min
Lab File: VU028338.D
Acq: 26 Nov 2018 14:57

Tgt Ion	Ratio	Lower	Upper
42	100		
72	38.8	29.8	44.6
71	0.0	25.9	38.9#





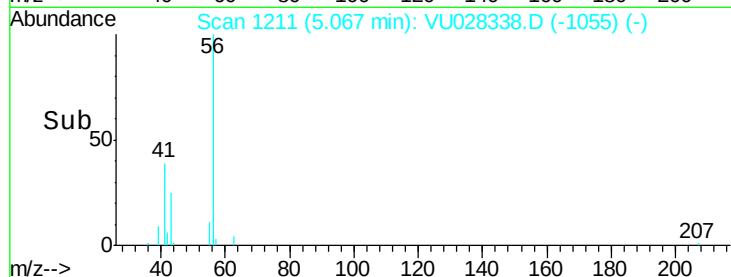
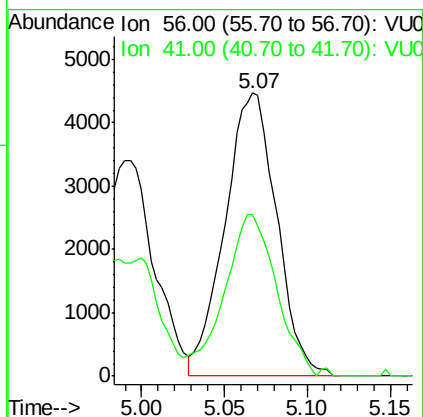
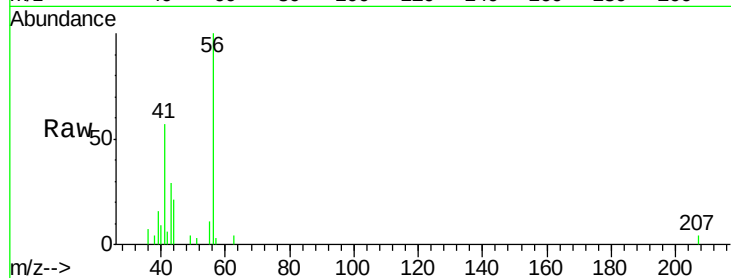
#42
1-Chlorobutane
Concen: 0.302 ug/l
RT: 5.07 min Scan# 1211
Delta R.T. 0.00 min
Lab File: VU028338.D
Acq: 26 Nov 2018 14:57

Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT4-2018

Tgt Ion: 56 Resp: 9718
Ion Ratio Lower Upper
56 100
41 56.8 29.8 89.3

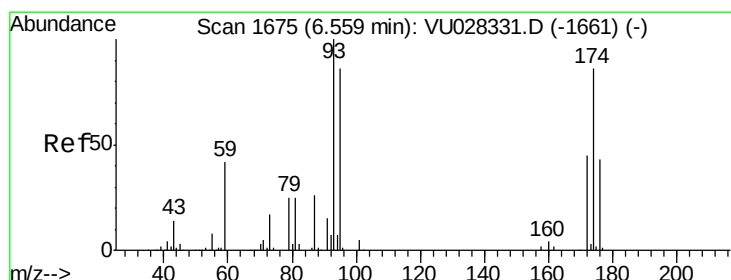
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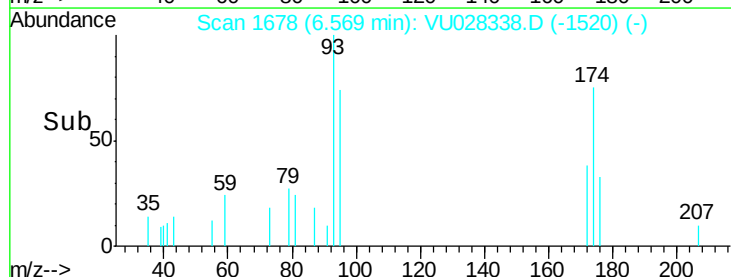
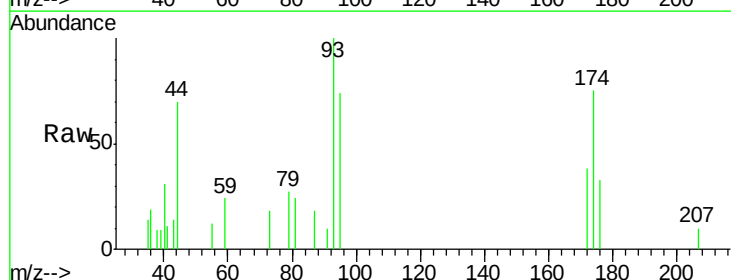
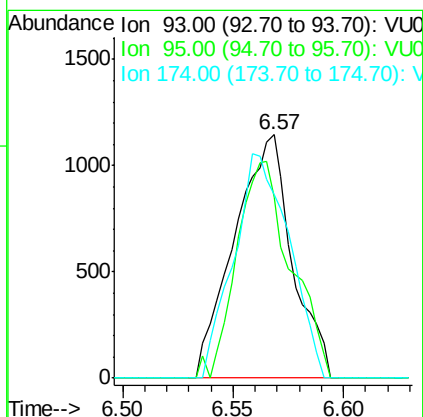
MMDadoda

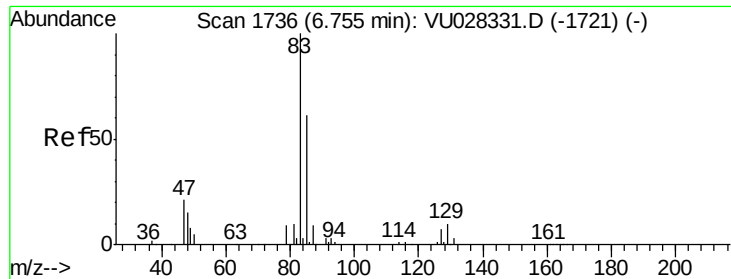
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#43
Dibromomethane
Concen: 0.287 ug/l
RT: 6.57 min Scan# 1678
Delta R.T. 0.01 min
Lab File: VU028338.D
Acq: 26 Nov 2018 14:57

Tgt Ion: 93 Resp: 2077
Ion Ratio Lower Upper
93 100
95 83.9 66.6 99.8
174 88.9 69.4 104.2





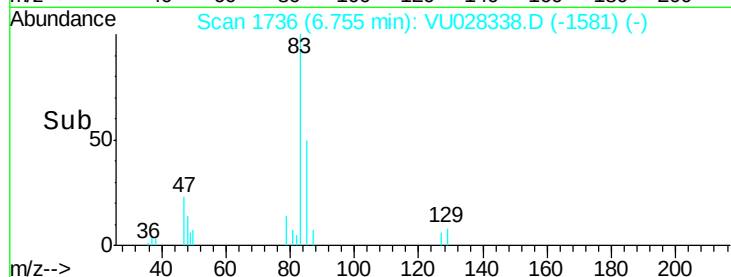
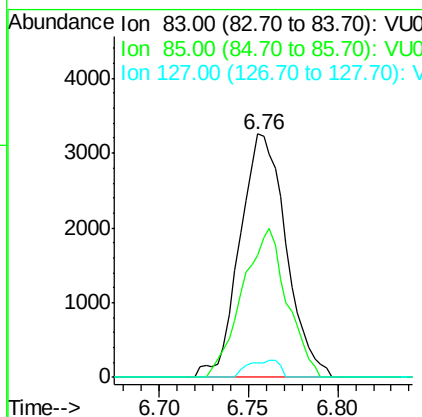
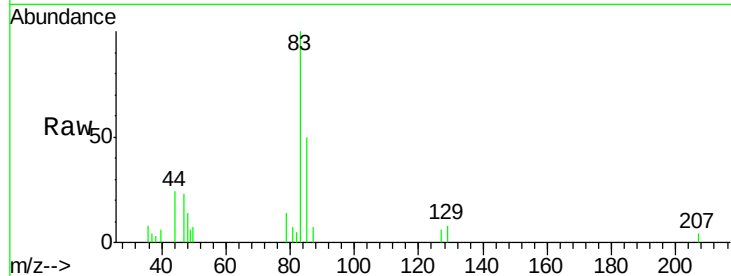
#44
Bromodichloromethane
Concen: 0.308 ug/l
RT: 6.76 min Scan# 1736
Delta R.T. -0.00 min
Lab File: VU028338.D
Acq: 26 Nov 2018 14:57

Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT4-2018

Tgt Ion	Ratio	Lower	Upper
83	100		
85	50.2	49.0	73.6
127	6.0	5.7	8.5

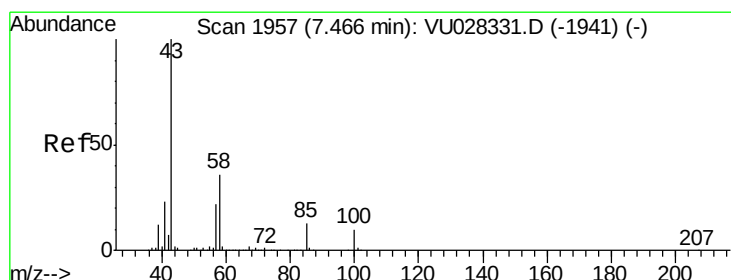
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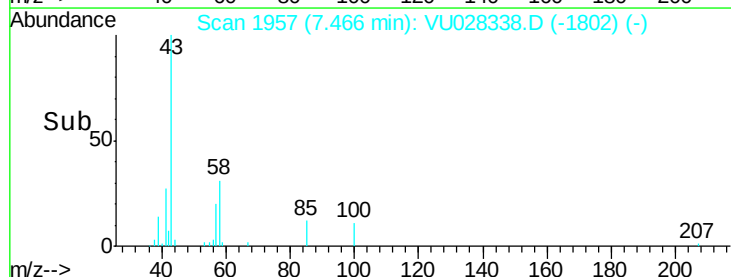
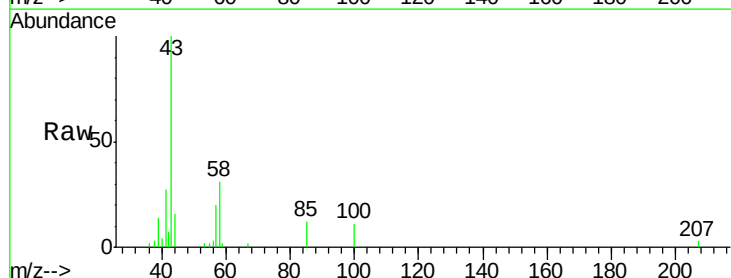
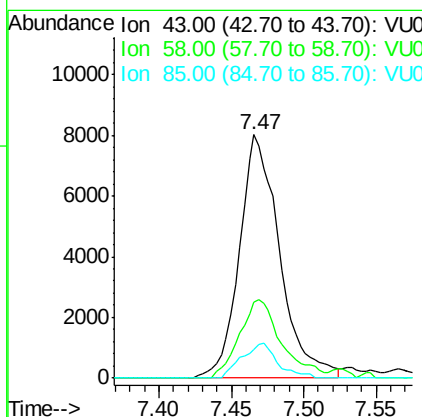
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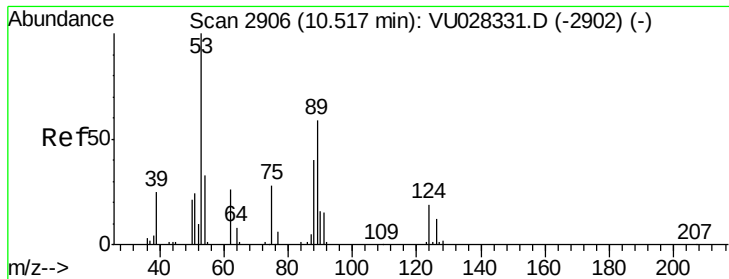
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#45
4-Methyl-2-Pentanone
Concen: 1.333 ug/l
RT: 7.47 min Scan# 1957
Delta R.T. -0.00 min
Lab File: VU028338.D
Acq: 26 Nov 2018 14:57

Tgt Ion	Ratio	Lower	Upper
43	100		
58	33.6	17.9	53.7
85	12.7	10.8	16.2





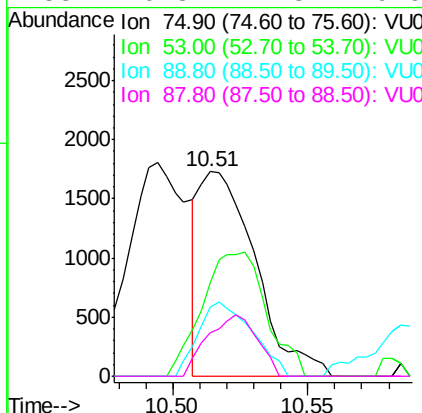
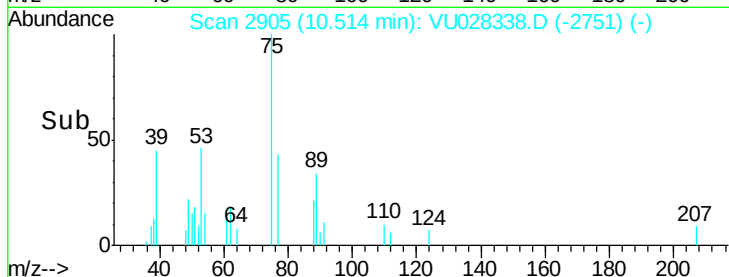
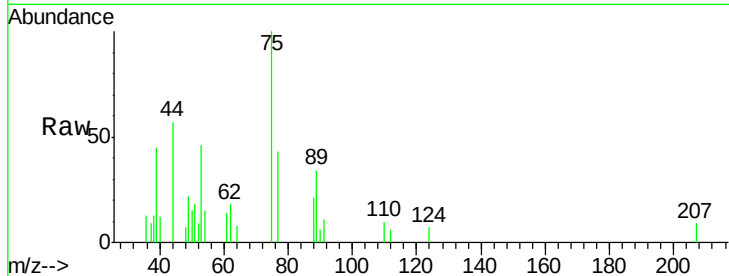
#46
t-1,4-Dichloro-2-butene
Concen: 0.582 ug/l m
RT: 10.51 min Scan# 2905
Delta R.T. -0.00 min
Lab File: VU028338.D
Acq: 26 Nov 2018 14:57

Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT4-2018

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	2475		
53	69.7	65.0	97.6	
89	35.2	38.6	58.0	#
88	26.8	27.3	40.9	#

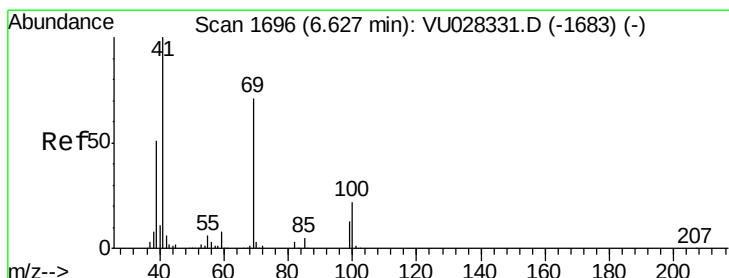
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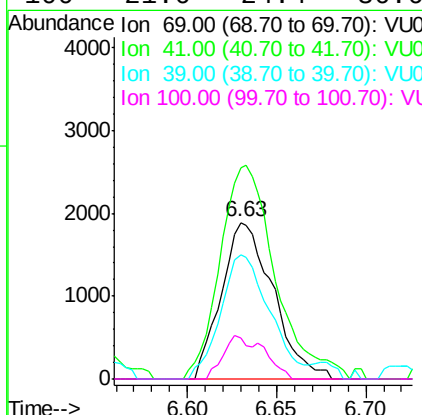
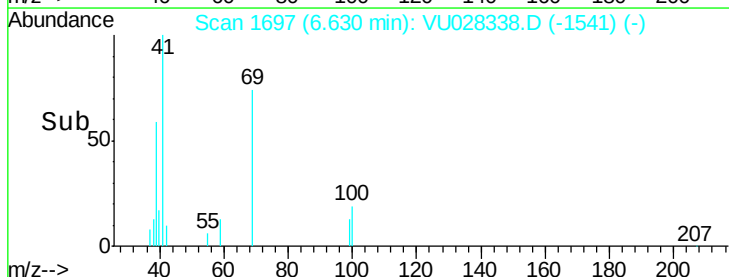
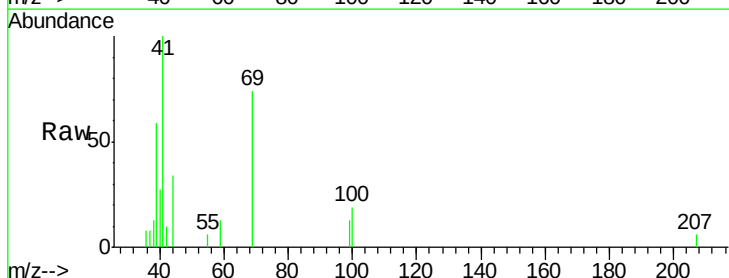
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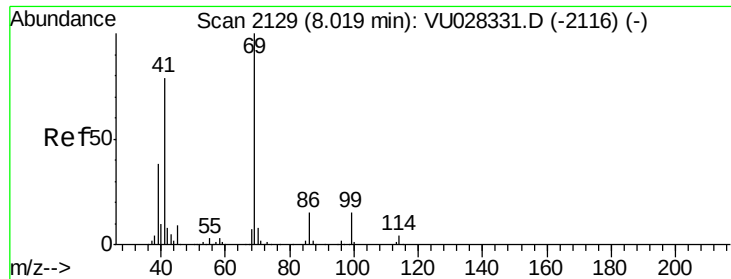
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#47
Methyl methacrylate
Concen: 0.515 ug/l
RT: 6.63 min Scan# 1697
Delta R.T. 0.00 min
Lab File: VU028338.D
Acq: 26 Nov 2018 14:57

Tgt Ion	Ratio	Resp	Lower	Upper
69	100	3809		
41	145.6	0.0	277.2	
39	76.0	57.6	86.4	
100	21.6	24.4	36.6	#





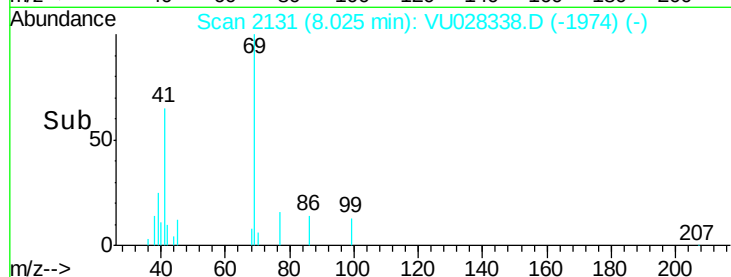
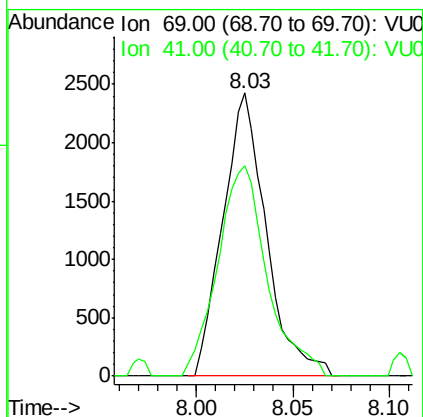
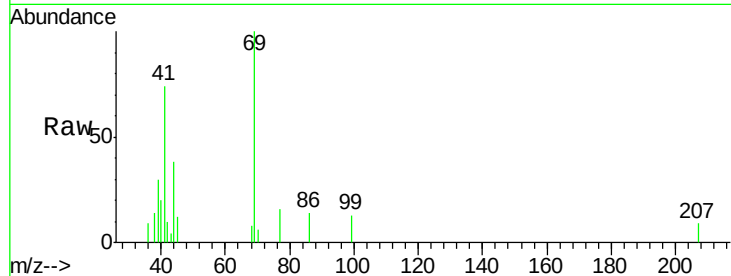
#48
Ethyl methacrylate
Concen: 0.256 ug/l
RT: 8.03 min Scan# 2131
Delta R.T. 0.01 min
Lab File: VU028338.D
Acq: 26 Nov 2018 14:57

Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT4-2018

Tgt Ion: 69 Resp: 3780
Ion Ratio Lower Upper
69 100
41 84.5 39.4 118.2

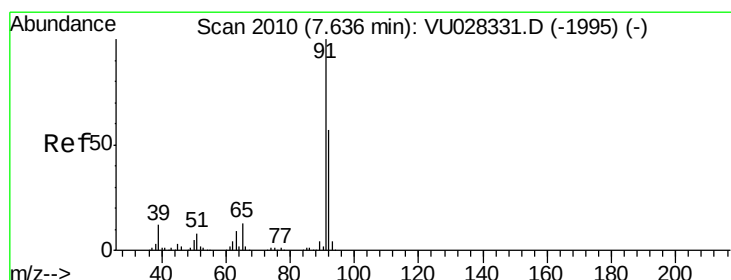
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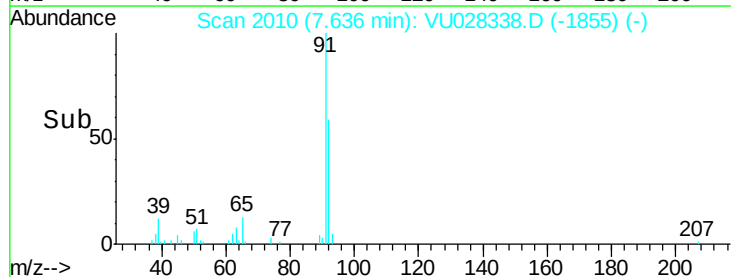
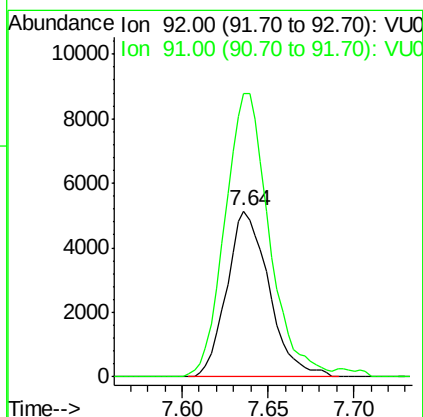
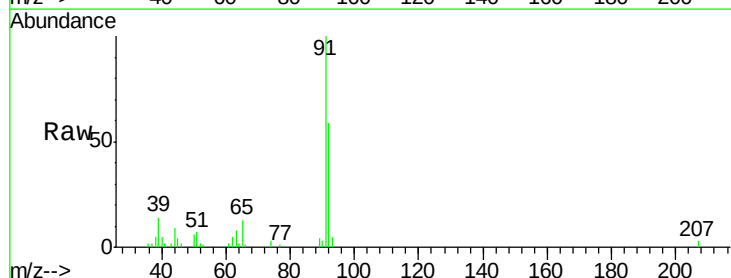
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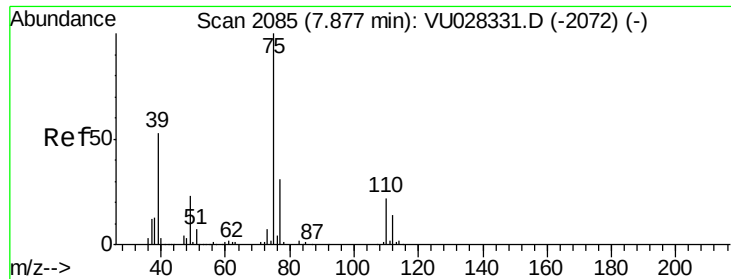
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#49
Toluene
Concen: 0.266 ug/l
RT: 7.64 min Scan# 2010
Delta R.T. -0.00 min
Lab File: VU028338.D
Acq: 26 Nov 2018 14:57

Tgt Ion: 92 Resp: 8802
Ion Ratio Lower Upper
92 100
91 179.1 141.5 212.3





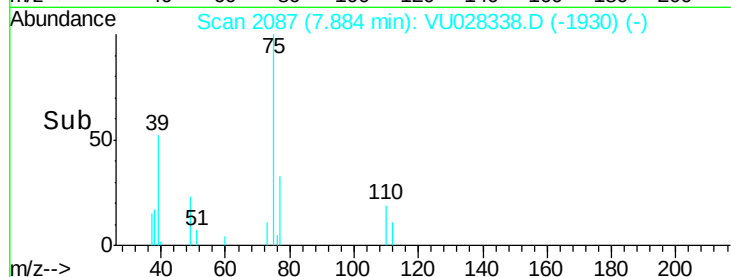
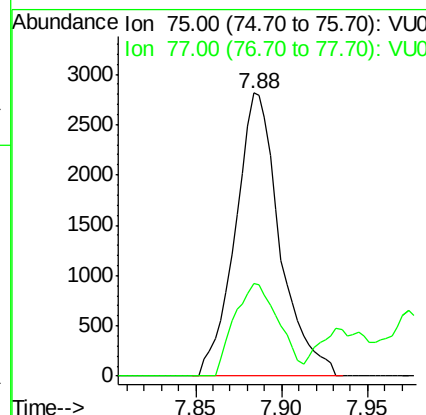
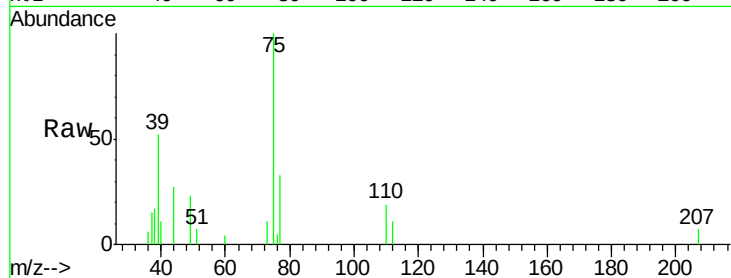
#50
t-1,3-Dichloropropene
Concen: 0.277 ug/l
RT: 7.88 min Scan# 2087
Delta R.T. 0.01 min
Lab File: VU028338.D
Acq: 26 Nov 2018 14:57

Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT4-2018

Tgt Ion: 75 Resp: 5083
Ion Ratio Lower Upper
75 100
77 32.7 24.7 37.1

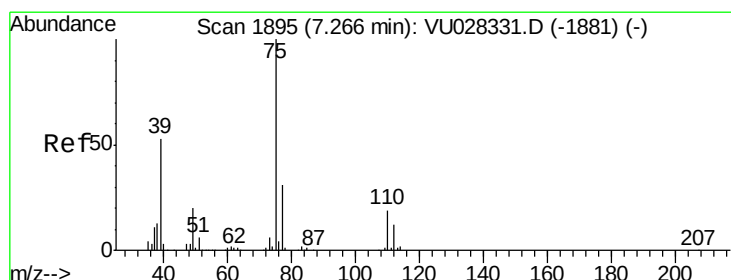
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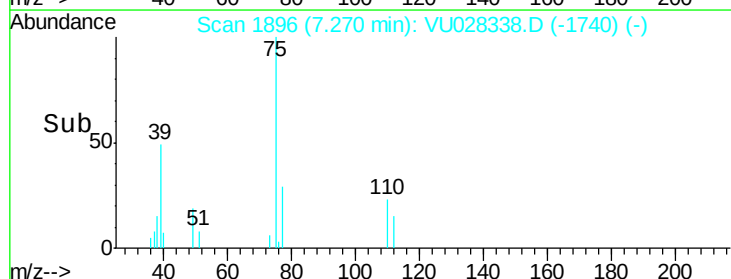
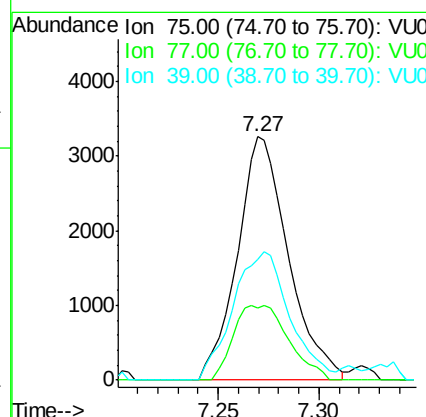
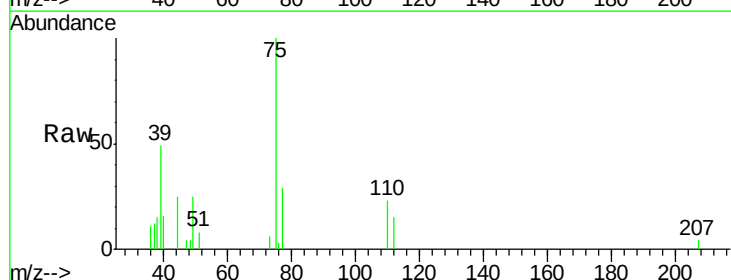
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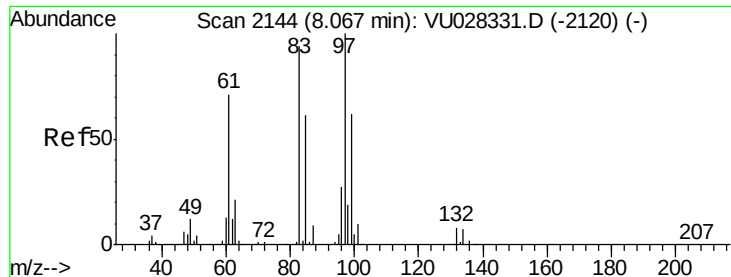
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#51
cis-1,3-Dichloropropene
Concen: 0.255 ug/l
RT: 7.27 min Scan# 1896
Delta R.T. 0.00 min
Lab File: VU028338.D
Acq: 26 Nov 2018 14:57

Tgt Ion: 75 Resp: 5774
Ion Ratio Lower Upper
75 100
77 29.5 24.4 36.6
39 49.5 42.8 64.2





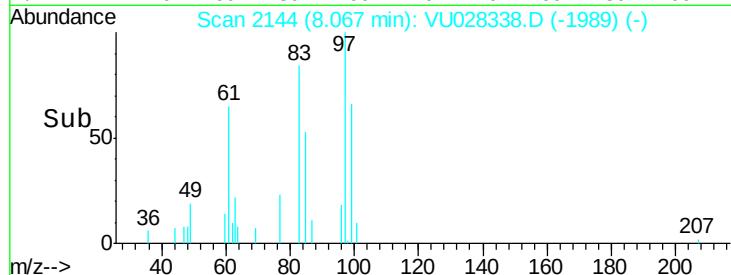
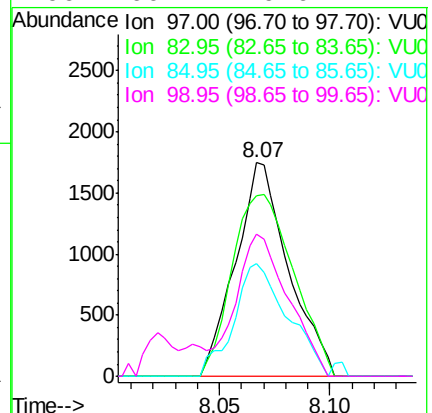
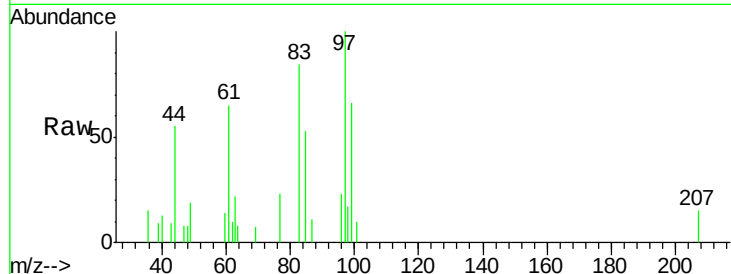
#52
 1,1,2-Trichloroethane
 Concen: 0.286 ug/l
 RT: 8.07 min Scan# 2144
 Delta R.T. -0.00 min
 Lab File: VU028338.D
 Acq: 26 Nov 2018 14:57

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-03-QT4-2018

Tgt Ion	Ratio	Lower	Upper
97	100		
83	84.4	75.1	112.7
85	52.8	48.7	73.1
99	66.4	49.6	74.4

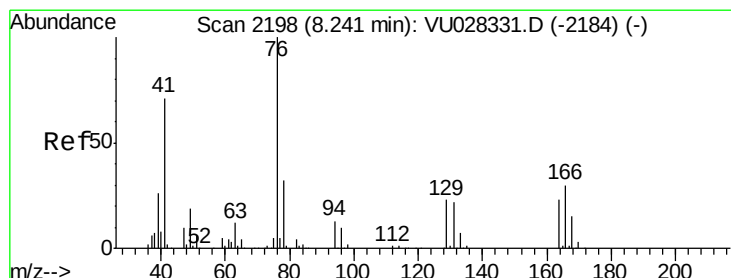
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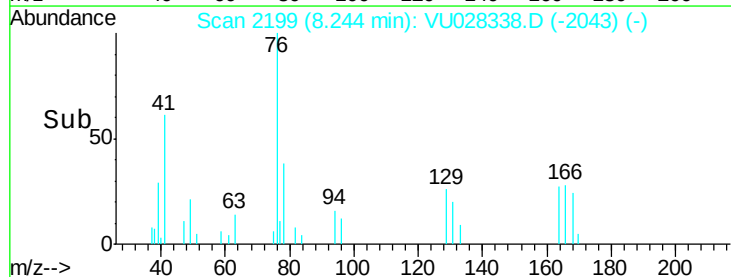
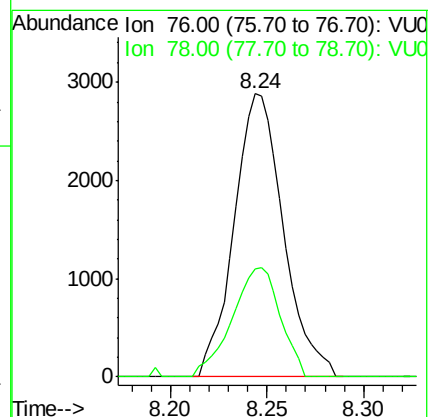
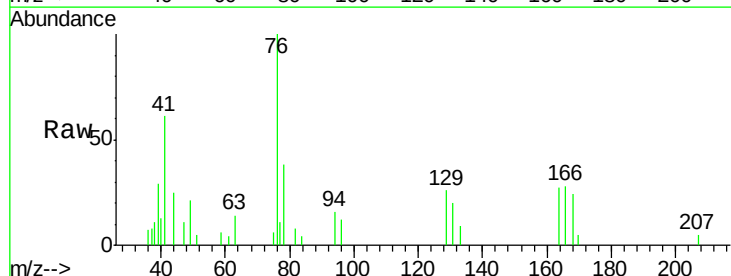
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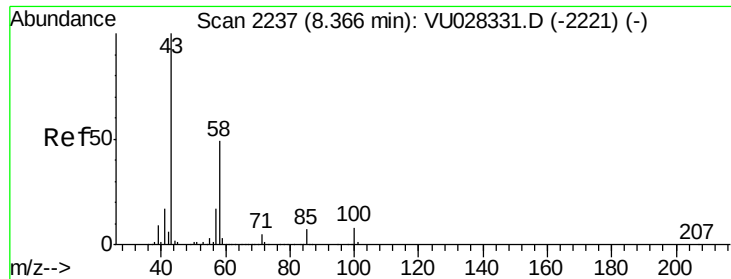
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#53
 1,3-Dichloropropane
 Concen: 0.269 ug/l
 RT: 8.24 min Scan# 2199
 Delta R.T. 0.00 min
 Lab File: VU028338.D
 Acq: 26 Nov 2018 14:57

Tgt Ion	Ratio	Lower	Upper
76	100		
78	37.7	25.4	38.0





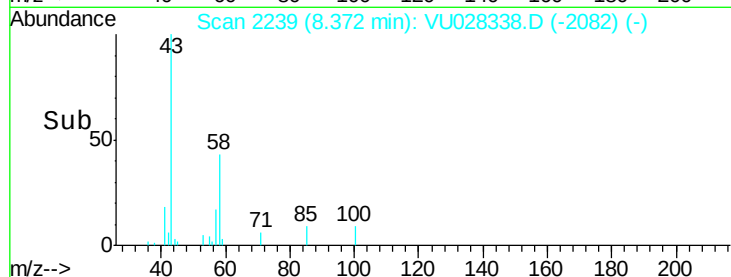
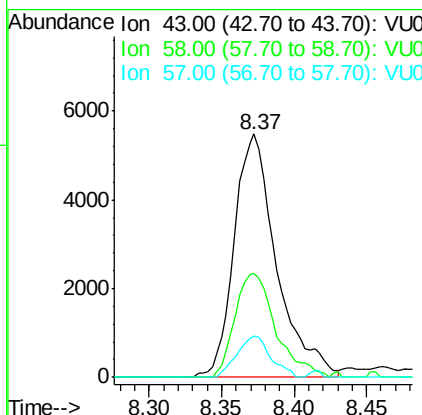
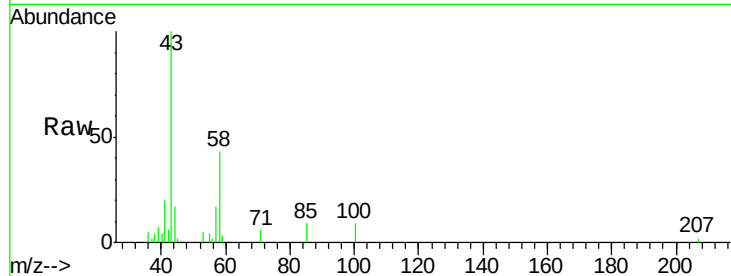
#54
2-Hexanone
Concen: 1.332 ug/l
RT: 8.37 min Scan# 2239
Delta R.T. 0.01 min
Lab File: VU028338.D
Acq: 26 Nov 2018 14:57

Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT4-2018

Tgt Ion	Ratio	Lower	Upper
43	100		
58	41.1	29.3	69.3
57	13.4	0.0	36.8

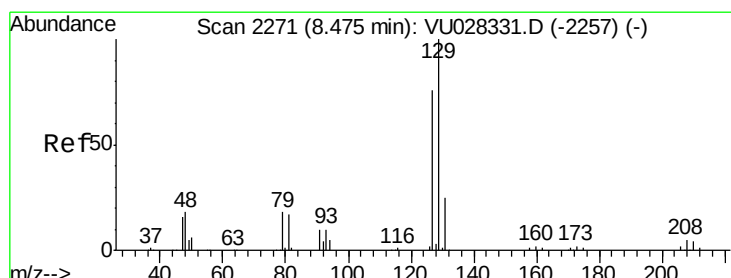
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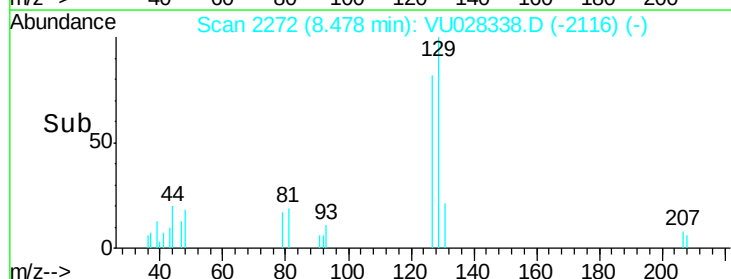
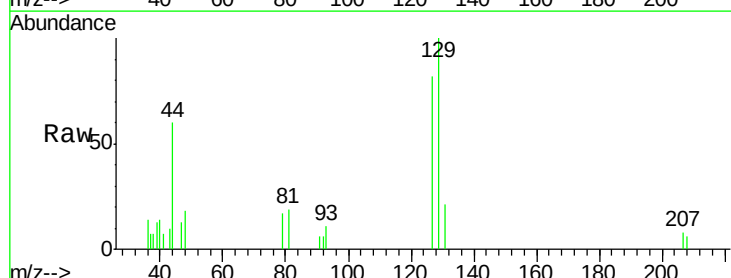
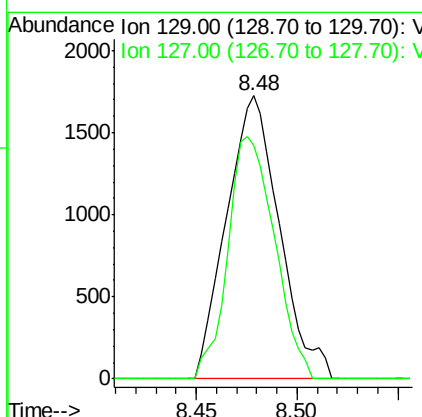
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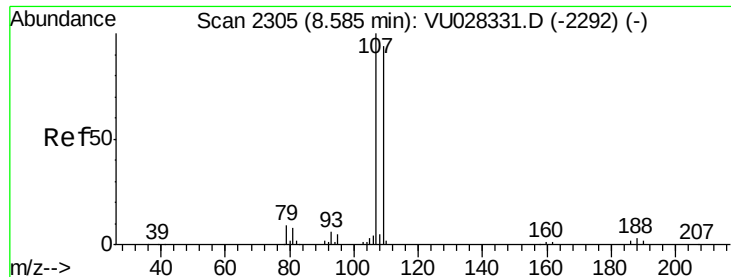
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#55
Dibromochloromethane
Concen: 0.292 ug/l
RT: 8.48 min Scan# 2272
Delta R.T. 0.00 min
Lab File: VU028338.D
Acq: 26 Nov 2018 14:57

Tgt Ion	Ratio	Lower	Upper
129	100		
127	75.9	61.0	91.4





#56

1,2-Dibromoethane

Concen: 0.267 ug/l

RT: 8.59 min Scan# 2306

Delta R.T. 0.00 min

Lab File: VU028338.D

Acq: 26 Nov 2018 14:57

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT4-2018

Tgt Ion: 107 Resp: 2470

Ion Ratio Lower Upper

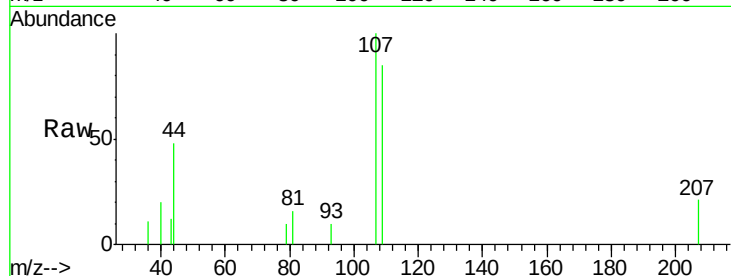
107 100

109 93.0 0.0 187.8

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Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

8.59

1500

1000

500

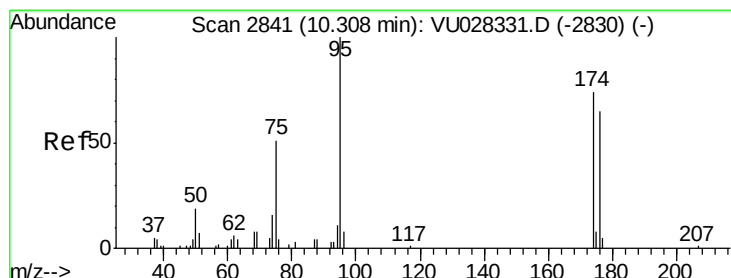
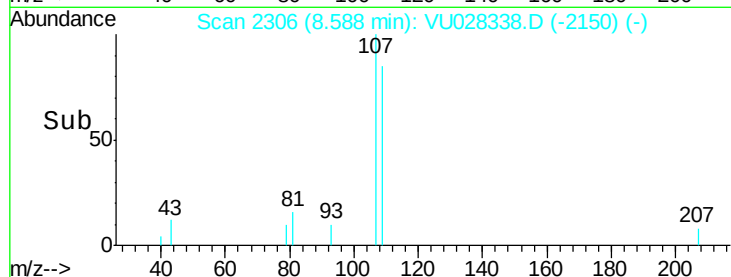
0

8.55 8.60 8.65

Time-->

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#57

4-Bromofluorobenzene

Concen: 0.267 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.00 min

Lab File: VU028338.D

Acq: 26 Nov 2018 14:57

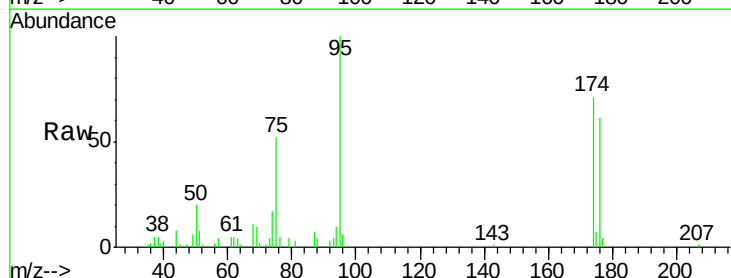
Tgt Ion: 95 Resp: 16619

Ion Ratio Lower Upper

95 100

174 70.2 59.3 88.9

176 64.3 54.3 81.5



Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

10.31

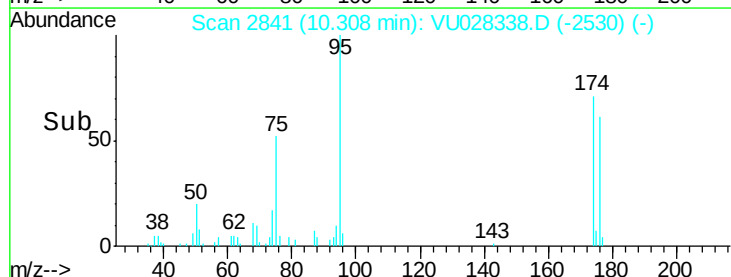
10000

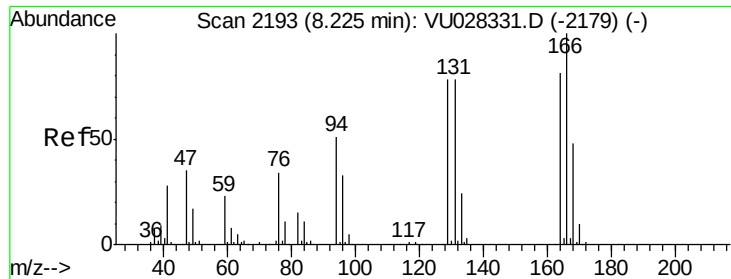
5000

0

10.25 10.30 10.35

Time-->





#58

Tetrachloroethene

Concen: 0.317 ug/l

RT: 8.23 min Scan# 2194

Delta R.T. 0.00 min

Lab File: VU028338.D

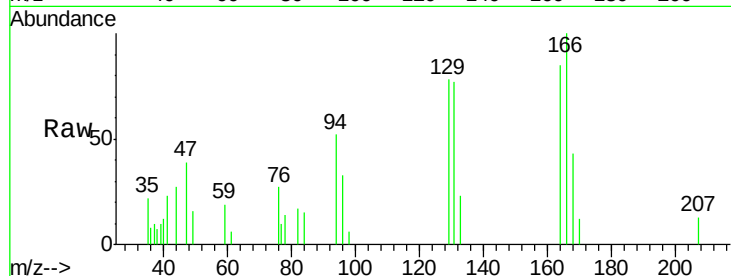
Acq: 26 Nov 2018 14:57

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT4-2018



Tgt Ion:164 Resp: 3775

Ion Ratio Lower Upper

164 100

166 118.2 98.6 148.0

129 92.4 77.0 115.4

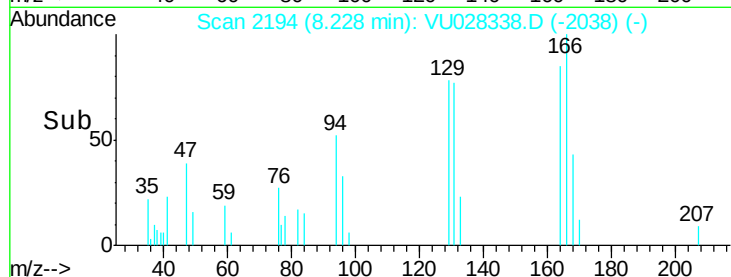
131 91.0 77.0 115.4

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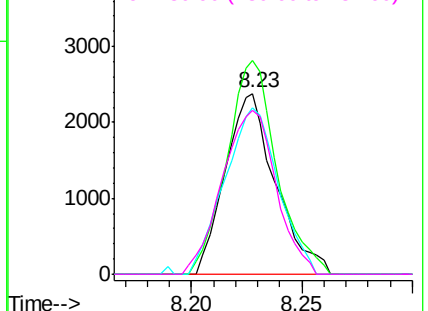


Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

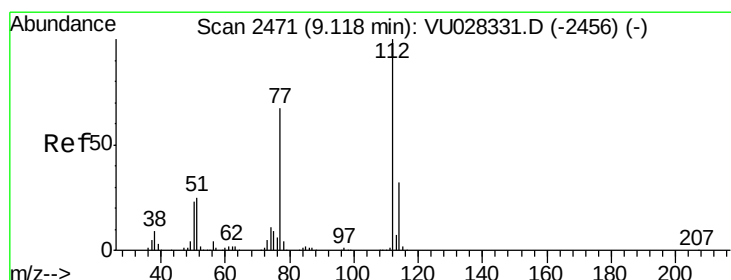
Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V



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#59

Chlorobenzene

Concen: 0.269 ug/l

RT: 9.12 min Scan# 2472

Delta R.T. 0.00 min

Lab File: VU028338.D

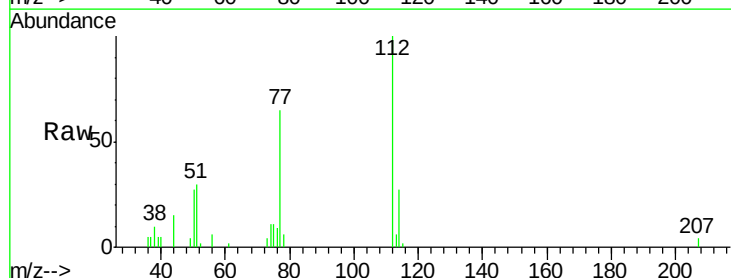
Acq: 26 Nov 2018 14:57

Tgt Ion:112 Resp: 9279

Ion Ratio Lower Upper

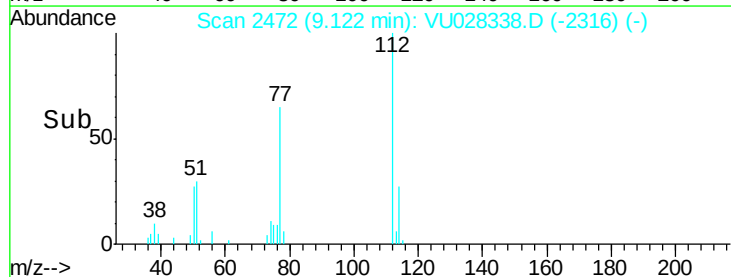
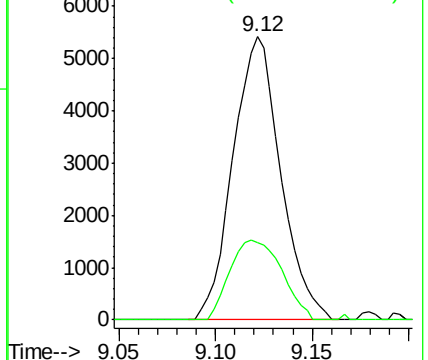
112 100

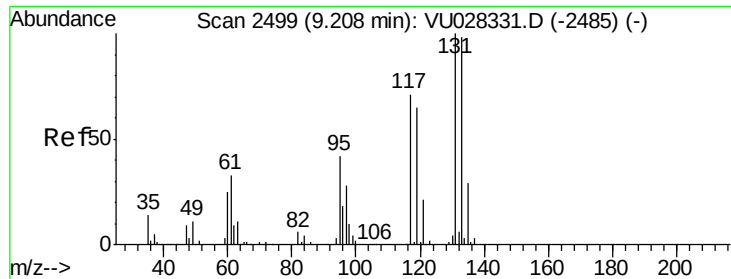
114 27.5 25.2 37.8



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V





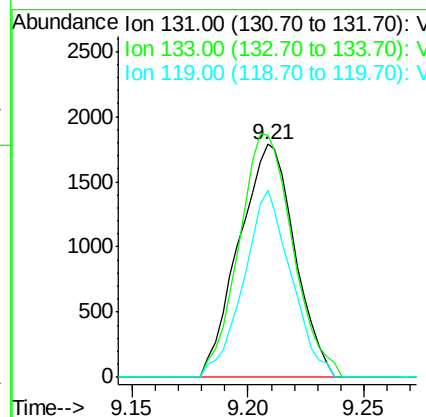
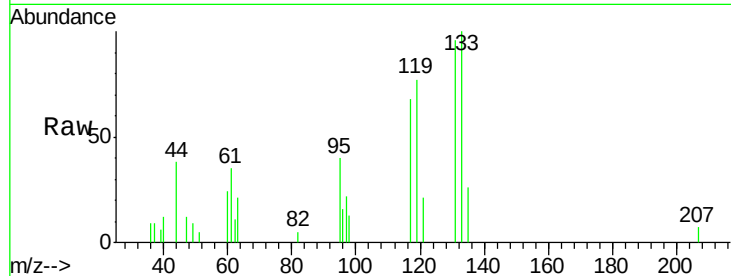
#60
 1,1,1,2-Tetrachloroethane
 Concen: 0.256 ug/l
 RT: 9.21 min Scan# 2499
 Delta R.T. -0.00 min
 Lab File: VU028338.D
 Acq: 26 Nov 2018 14:57

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-03-QT4-2018

Tgt Ion	Ratio	Resp	Lower	Upper
131	100	2991		
133	100.8	77.7	116.5	
119	68.2	54.3	81.5	

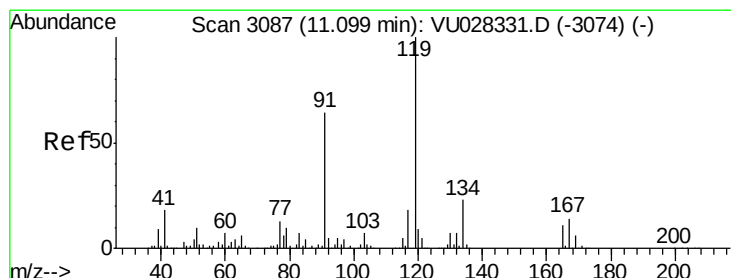
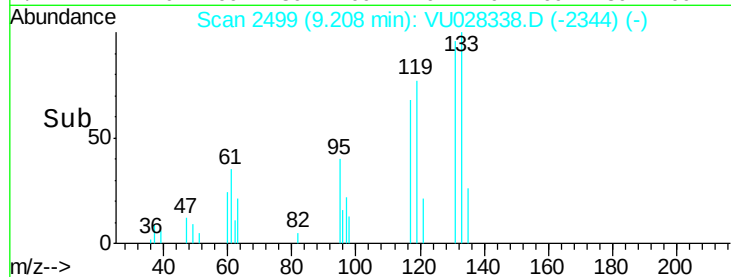
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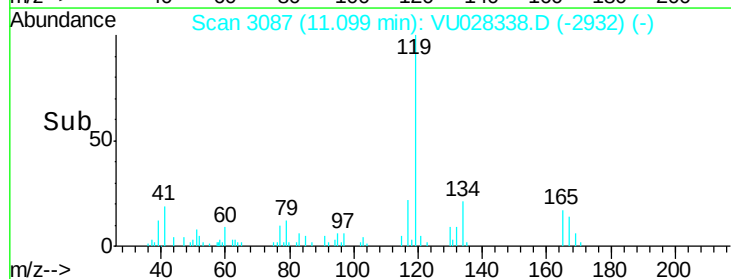
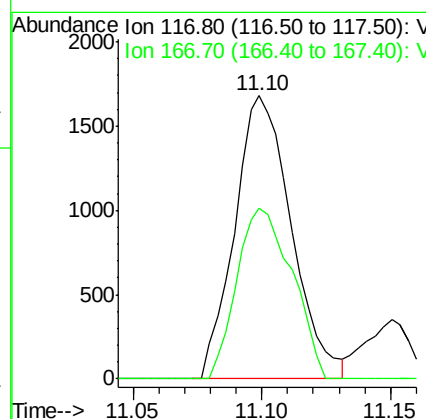
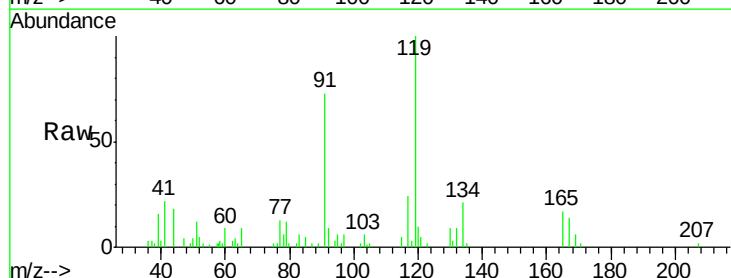
MMDadoda

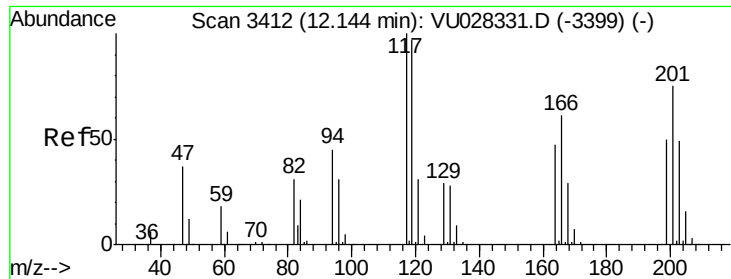
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#61
 Pentachloroethane
 Concen: 0.283 ug/l
 RT: 11.10 min Scan# 3087
 Delta R.T. -0.00 min
 Lab File: VU028338.D
 Acq: 26 Nov 2018 14:57

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	2576		
167	58.8	64.2	96.2	





#62

Hexachloroethane

Concen: 0.227 ug/l

RT: 12.14 min Scan# 3410

Delta R.T. -0.01 min

Lab File: VU028338.D

Acq: 26 Nov 2018 14:57

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT4-2018

Tgt Ion: 117 Resp: 1933

Ion Ratio Lower Upper

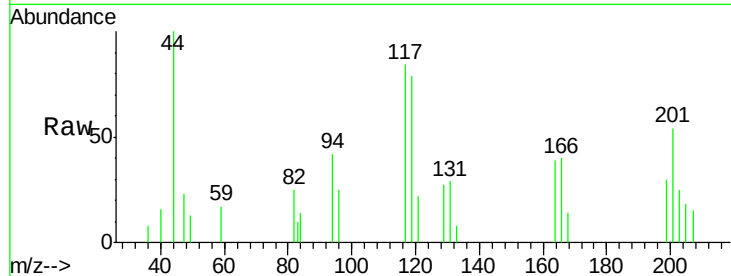
117 100

201 72.3 59.4 89.2

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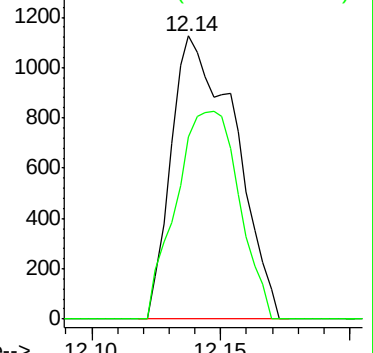
MMDadoda

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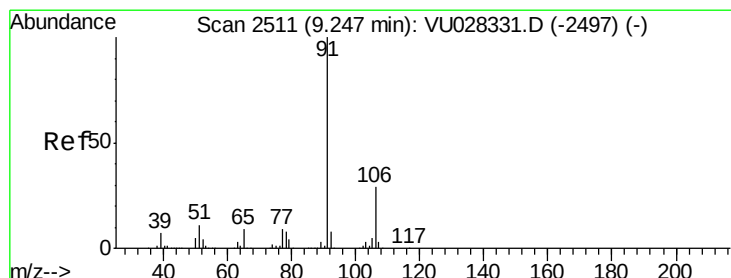
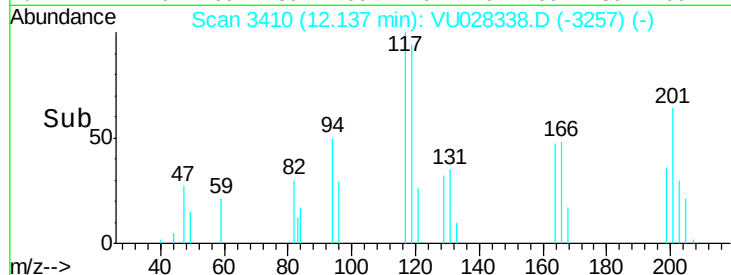
Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.60 (200.30 to 201.30): V



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#63

Ethyl Benzene

Concen: 0.272 ug/l

RT: 9.25 min Scan# 2512

Delta R.T. 0.00 min

Lab File: VU028338.D

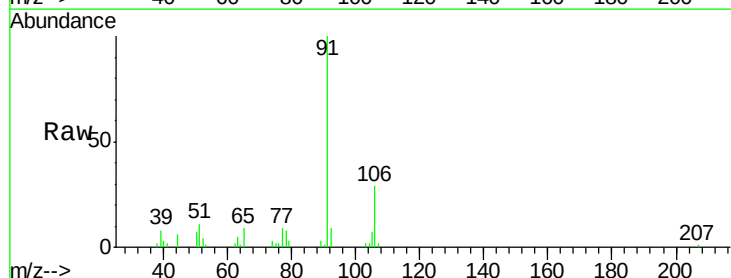
Acq: 26 Nov 2018 14:57

Tgt Ion: 91 Resp: 17308

Ion Ratio Lower Upper

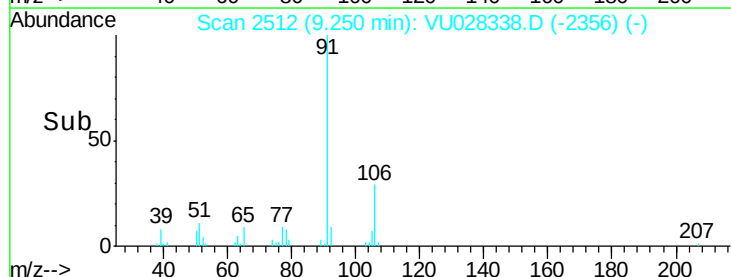
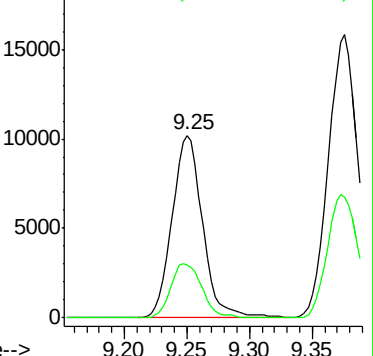
91 100

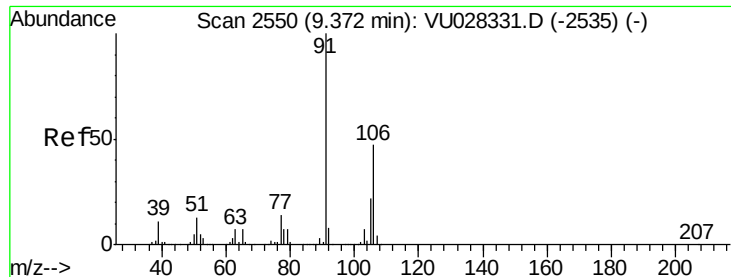
106 29.2 23.4 35.2



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 106.00 (105.70 to 106.70): V





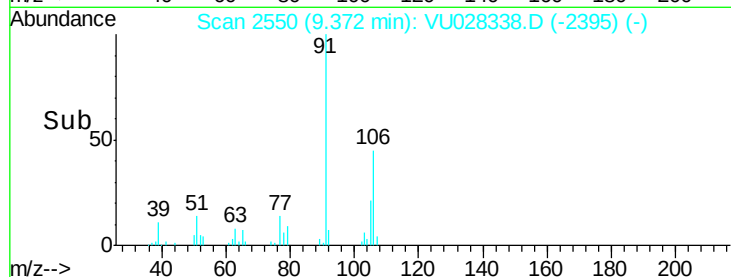
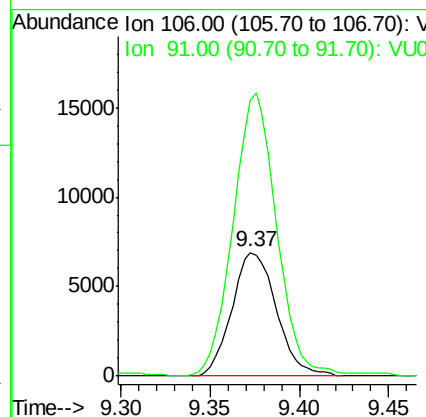
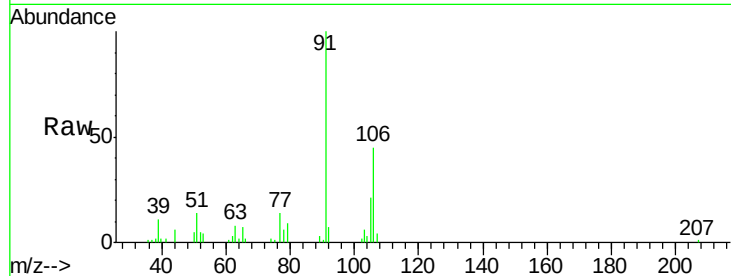
#64
m/p-Xylenes
Concen: 0.523 ug/l
RT: 9.37 min Scan# 2550
Delta R.T. -0.00 min
Lab File: VU028338.D
Acq: 26 Nov 2018 14:57

Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT4-2018

Tgt Ion:106 Resp: 12042
Ion Ratio Lower Upper
106 100
91 223.3 170.6 256.0

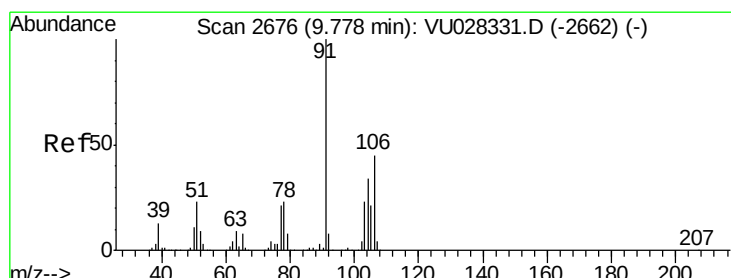
Manual Integrations
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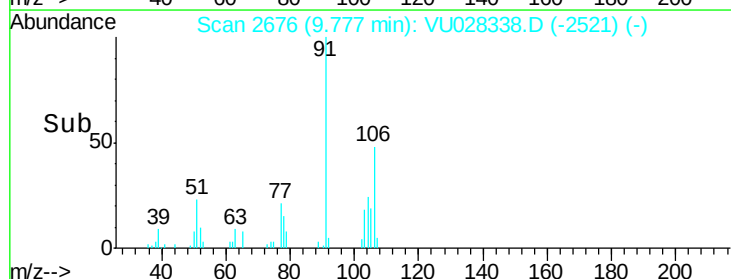
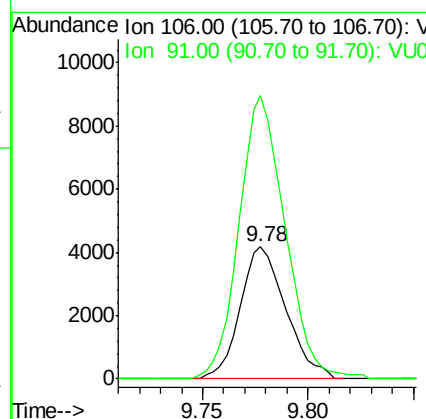
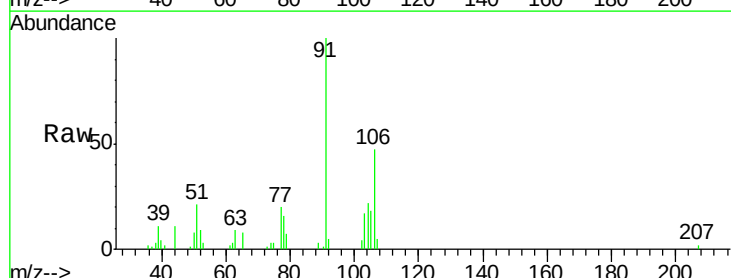
MMDadoda

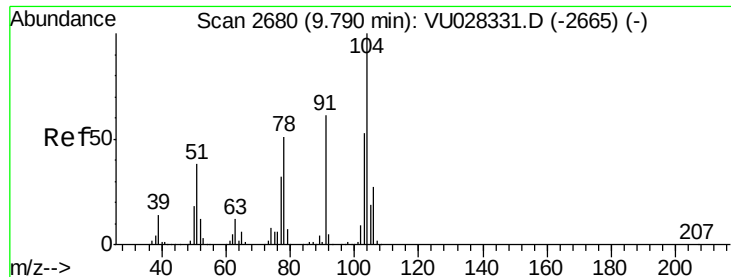
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#65
o-Xylene
Concen: 0.283 ug/l
RT: 9.78 min Scan# 2676
Delta R.T. -0.00 min
Lab File: VU028338.D
Acq: 26 Nov 2018 14:57

Tgt Ion:106 Resp: 6277
Ion Ratio Lower Upper
106 100
91 216.3 112.3 337.0





#66

Styrene

Concen: 0.258 ug/l

RT: 9.79 min Scan# 2680

Delta R.T. -0.00 min

Lab File: VU028338.D

Acq: 26 Nov 2018 14:57

Instrument :

MSVOA_U

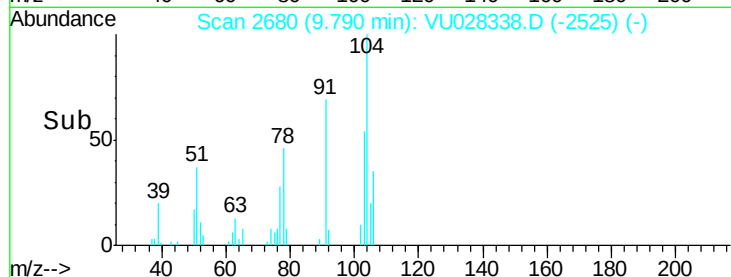
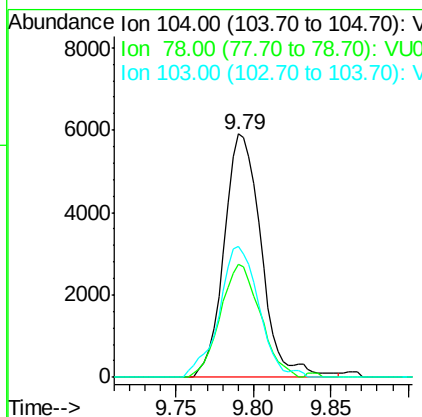
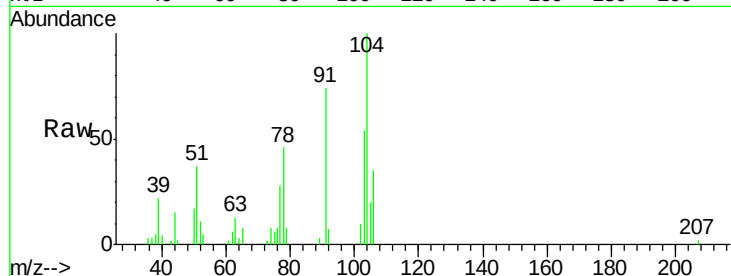
ClientSampleId :

MDL-WATER-03-QT4-2018

Tgt Ion:	104	Resp:	9848
Ion Ratio	Lower	Upper	
104	100		
78	49.7	44.0	66.0
103	56.7	45.2	67.8

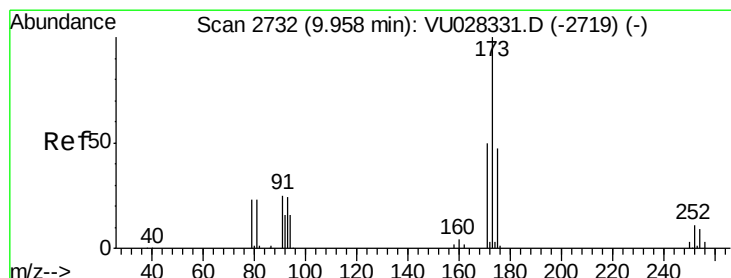
Manual Integrations
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#67

Bromoform

Concen: 0.250 ug/l

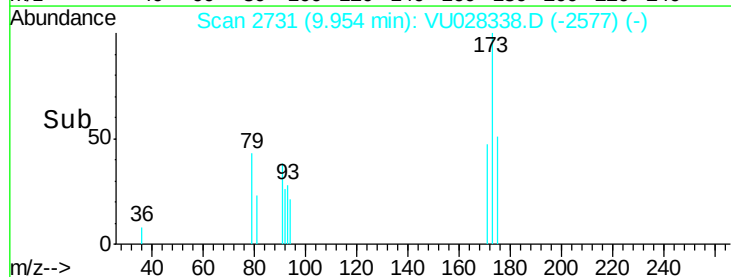
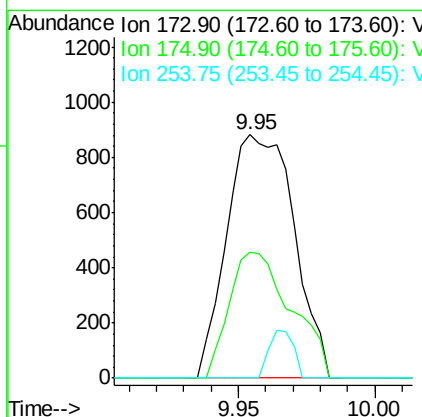
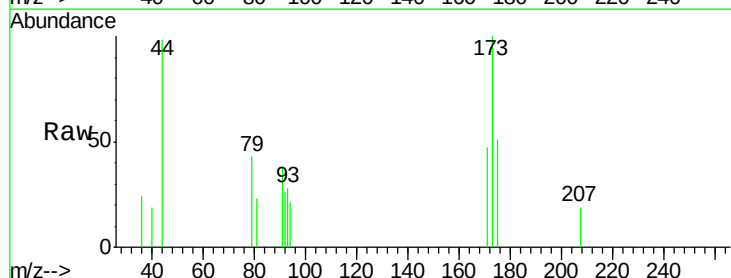
RT: 9.95 min Scan# 2731

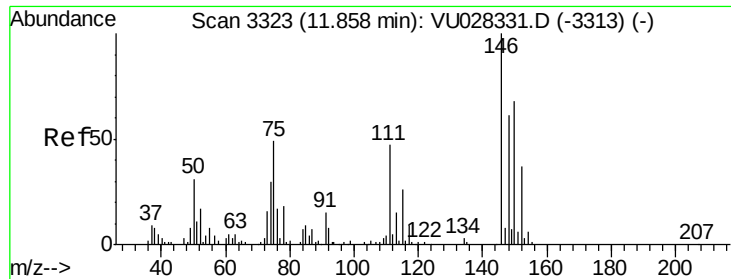
Delta R.T. -0.00 min

Lab File: VU028338.D

Acq: 26 Nov 2018 14:57

Tgt Ion:	173	Resp:	1515
Ion Ratio	Lower	Upper	
173	100		
175	47.7	39.0	58.6
254	7.1	6.8	10.2





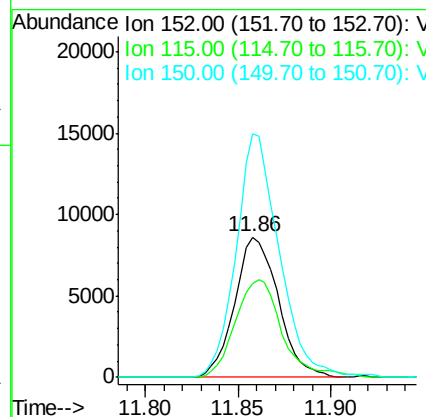
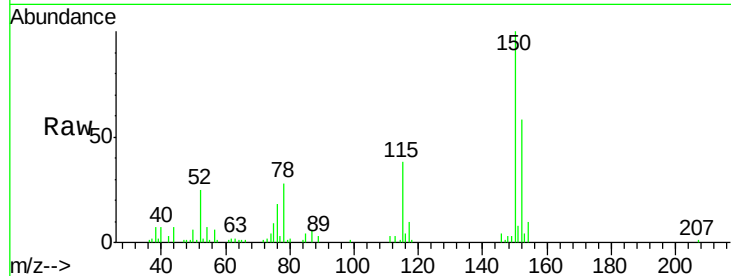
#68
 1,2-Dichlorobenzene-d4
 Concen: 0.250 ug/l
 RT: 11.86 min Scan# 3323
 Delta R.T. -0.00 min
 Lab File: VU028338.D
 Acq: 26 Nov 2018 14:57

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-03-QT4-2018

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	14053		
115	74.5	0.0	146.8	
150	171.0	0.0	653.2	

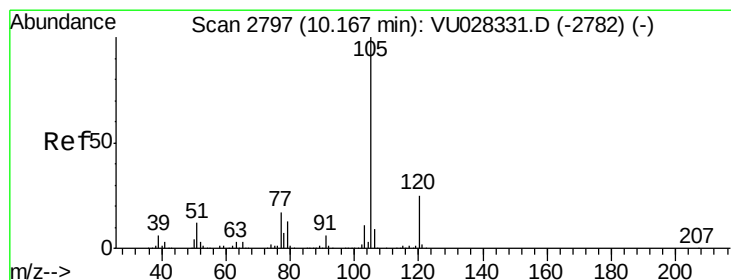
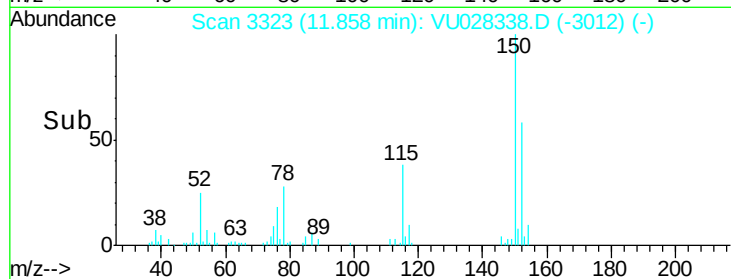
Manual Integrations
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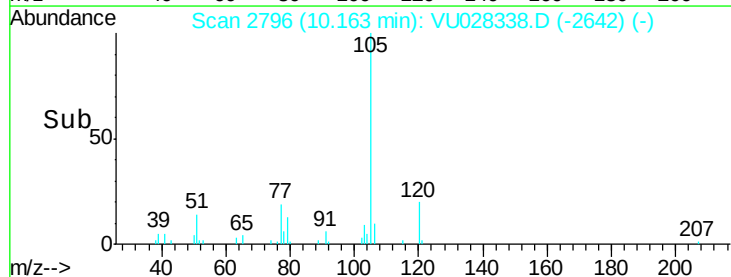
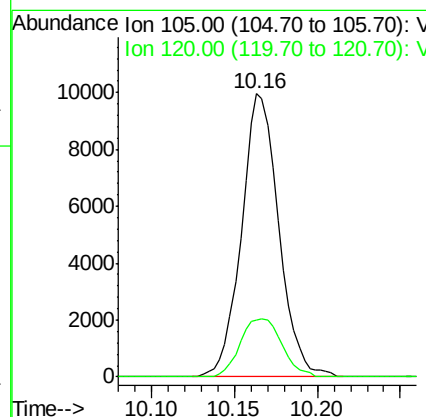
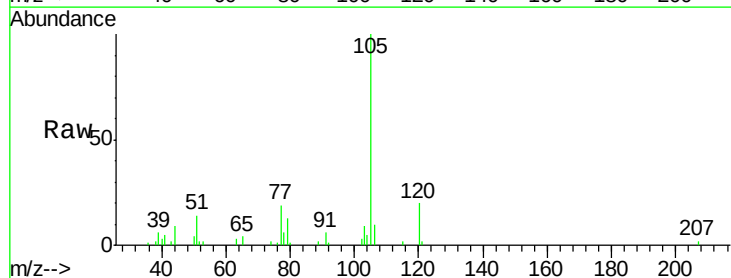
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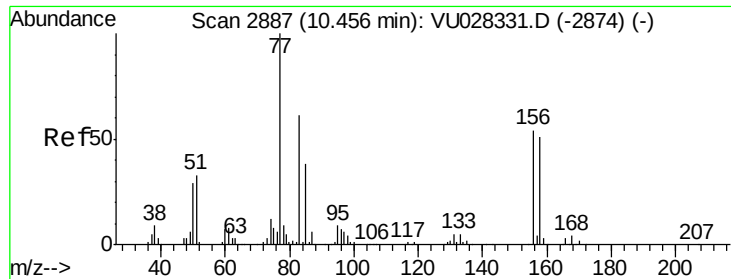
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#69
 Isopropylbenzene
 Concen: 0.261 ug/l
 RT: 10.16 min Scan# 2796
 Delta R.T. -0.00 min
 Lab File: VU028338.D
 Acq: 26 Nov 2018 14:57

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	15543		
120	23.0	12.6	37.6	





#70

1,1,2,2-Tetrachloroethane

Concen: 0.277 ug/l

RT: 10.46 min Scan# 2888

Delta R.T. 0.00 min

Lab File: VU028338.D

Acq: 26 Nov 2018 14:57

Instrument :

MSVOA_U

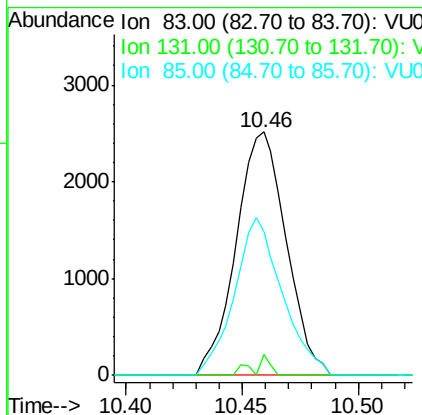
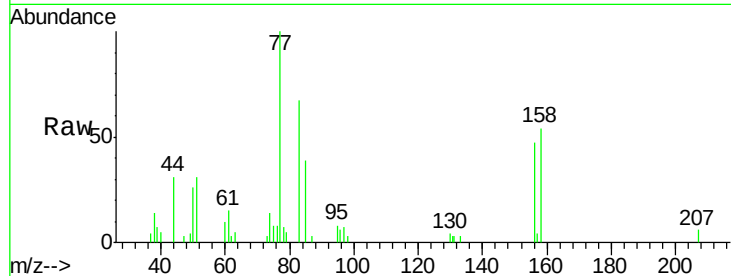
ClientSampleId :

MDL-WATER-03-QT4-2018

Tgt Ion:	83	Resp:	3778
Ion Ratio	Lower	Upper	
83	100		
131	2.7	6.6	9.8#
85	61.8	50.5	75.7

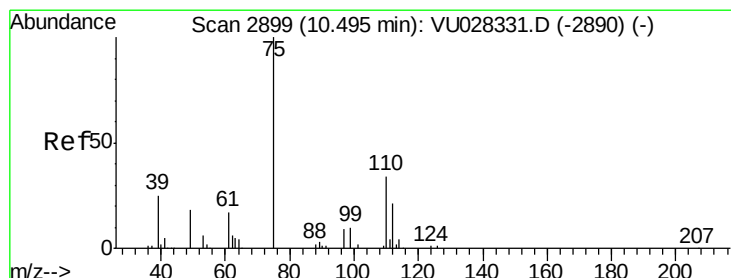
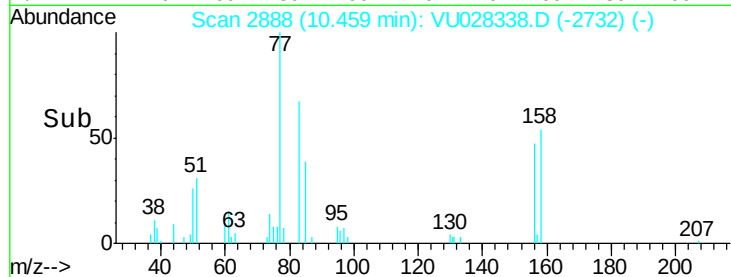
Manual Integrations
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#71

1,2,3-Trichloropropane

Concen: 0.266 ug/l m

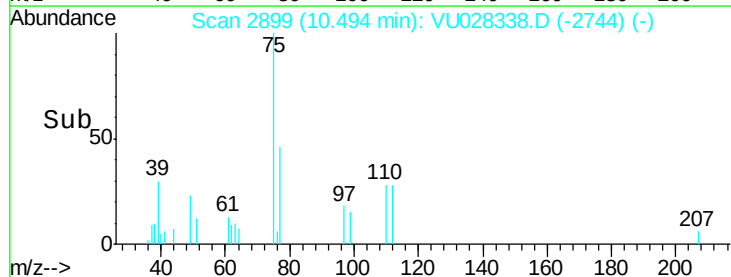
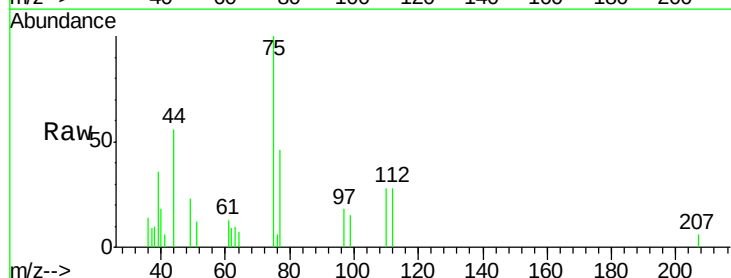
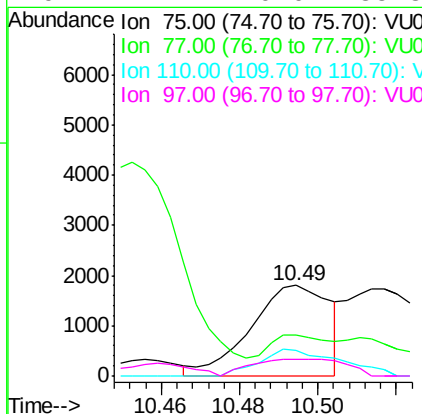
RT: 10.49 min Scan# 2899

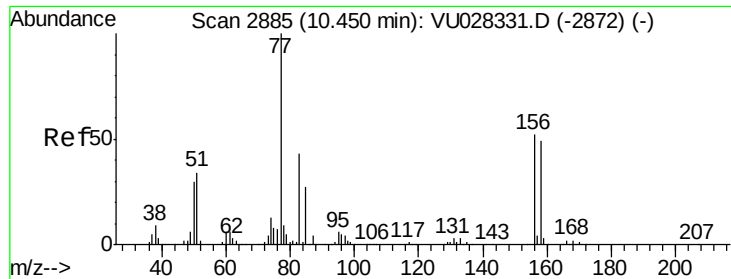
Delta R.T. -0.00 min

Lab File: VU028338.D

Acq: 26 Nov 2018 14:57

Tgt Ion:	75	Resp:	2531
Ion Ratio	Lower	Upper	
75	100		
77	18.6	0.0	0.0#
110	29.9	0.0	67.6
97	22.2	0.0	35.8





#72

Bromobenzene

Concen: 0.267 ug/l

RT: 10.45 min Scan# 2886

Delta R.T. 0.00 min

Lab File: VU028338.D

Acq: 26 Nov 2018 14:57

Instrument :

MSVOA_U

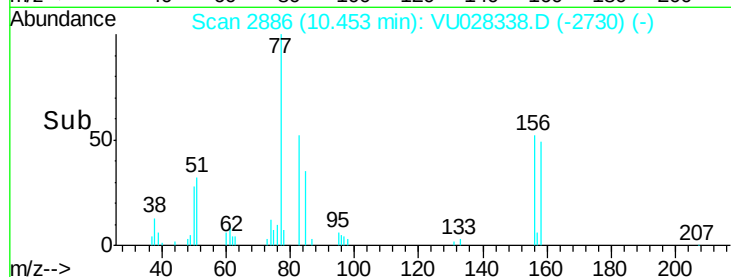
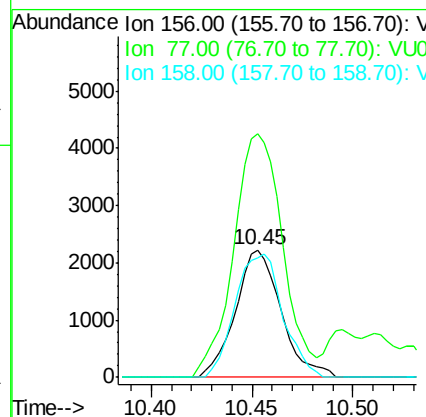
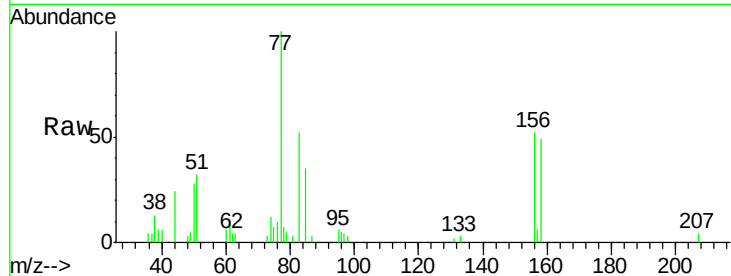
ClientSampleId :

MDL-WATER-03-QT4-2018

Tgt Ion:	156	Resp:	3527
Ion Ratio	Lower	Upper	
156	100		
77	205.2	0.0	380.4
158	101.2	0.0	191.2

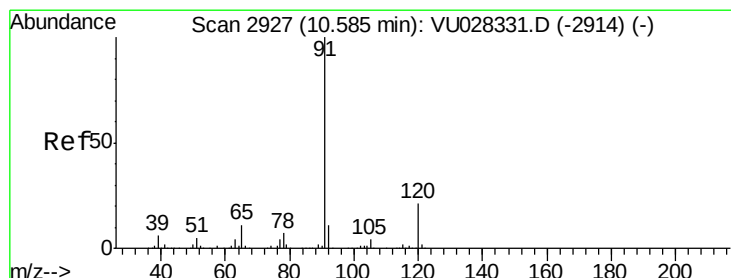
Manual Integrations
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#73

n-propylbenzene

Concen: 0.280 ug/l

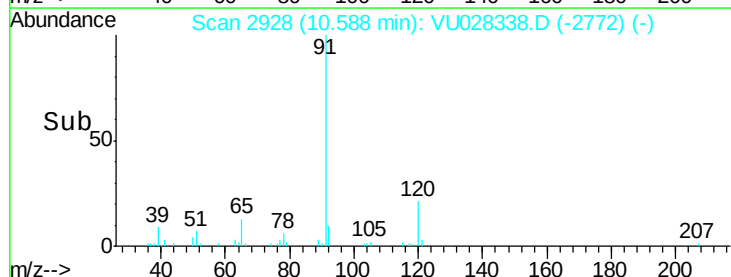
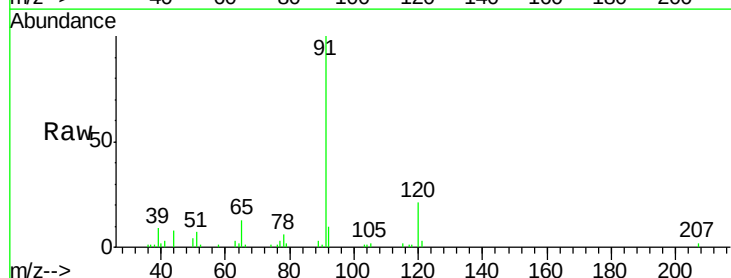
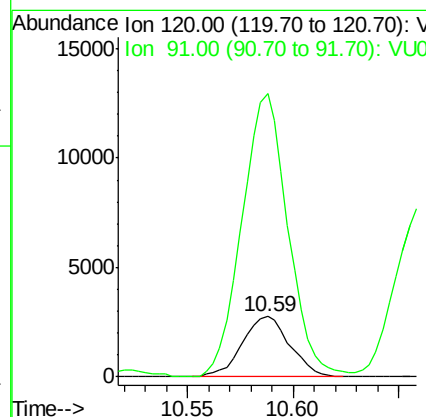
RT: 10.59 min Scan# 2928

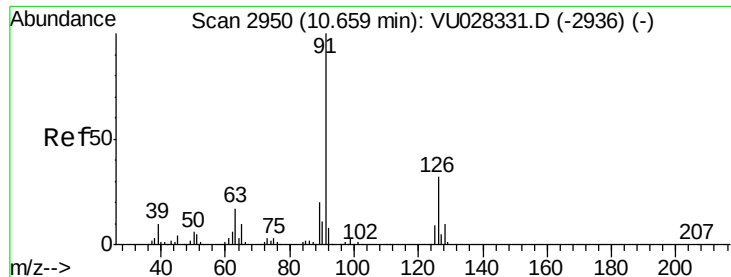
Delta R.T. 0.00 min

Lab File: VU028338.D

Acq: 26 Nov 2018 14:57

Tgt Ion:	120	Resp:	4324
Ion Ratio	Lower	Upper	
120	100		
91	452.9	388.1	582.1





#74

2-Chlorotoluene

Concen: 0.302 ug/l

RT: 10.66 min Scan# 2951

Delta R.T. 0.00 min

Lab File: VU028338.D

Acq: 26 Nov 2018 14:57

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT4-2018

Tgt Ion:126 Resp: 4080

Ion Ratio Lower Upper

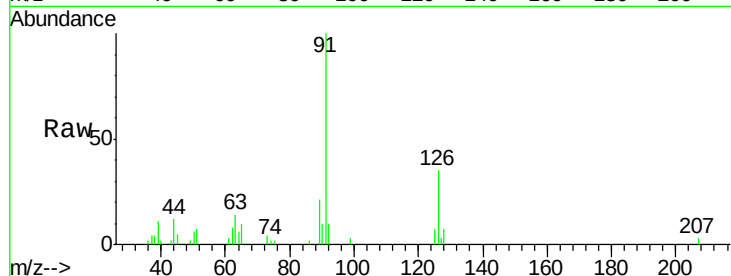
126 100

91 299.6 0.0 661.0

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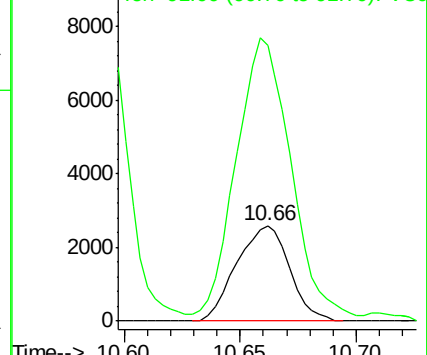
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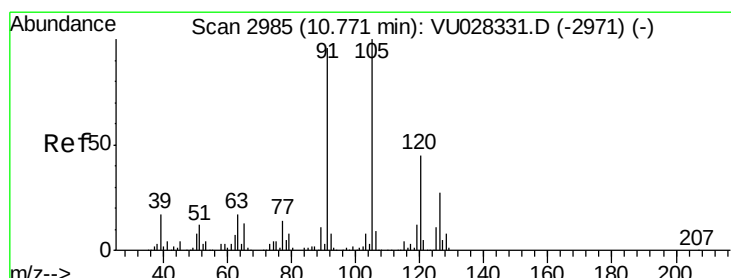
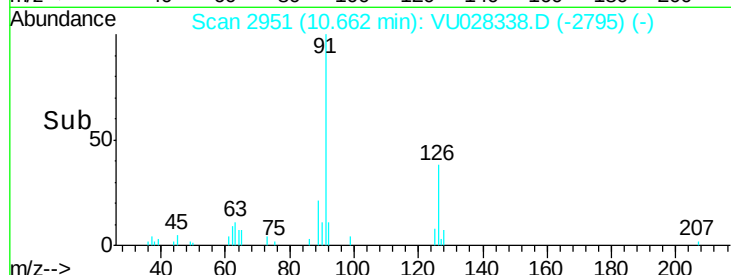
Abundance Ion 126.00 (125.70 to 126.70): V

Ion 91.00 (90.70 to 91.70): VU0



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#75

1,3,5-Trimethylbenzene

Concen: 0.249 ug/l

RT: 10.77 min Scan# 2985

Delta R.T. -0.00 min

Lab File: VU028338.D

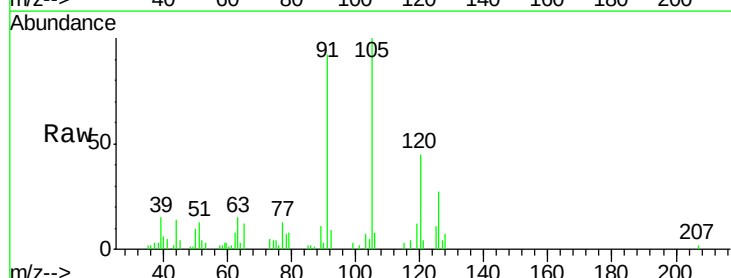
Acq: 26 Nov 2018 14:57

Tgt Ion:105 Resp: 12475

Ion Ratio Lower Upper

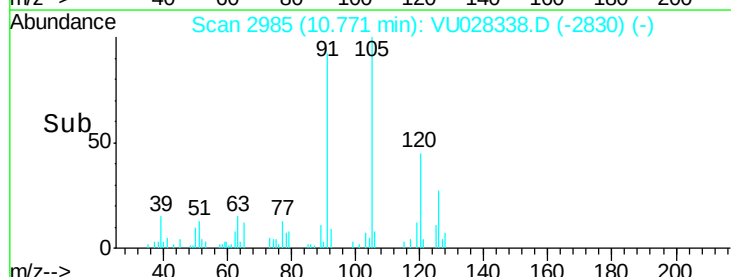
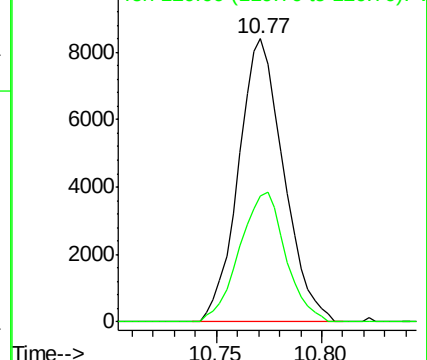
105 100

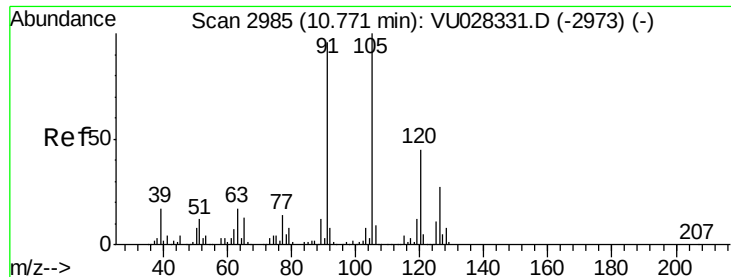
120 46.9 36.3 54.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#76

4-Chlorotoluene

Concen: 0.265 ug/l

RT: 10.77 min Scan# 2986

Delta R.T. 0.00 min

Lab File: VU028338.D

Acq: 26 Nov 2018 14:57

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT4-2018

Tgt Ion:126 Resp: 3630

Ion Ratio Lower Upper

126 100

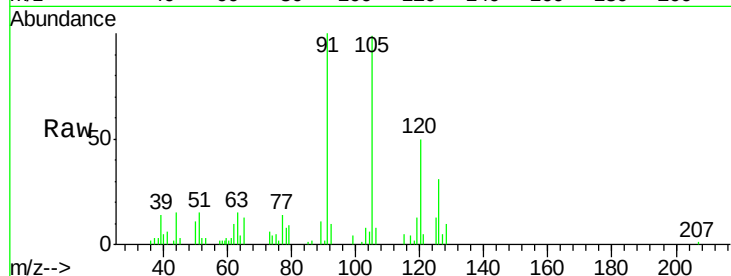
91 366.7 0.0 731.2

Manual Integrations

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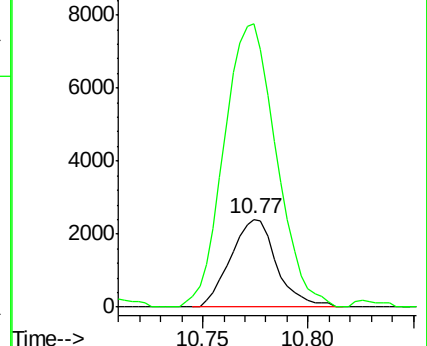
MMDadoda

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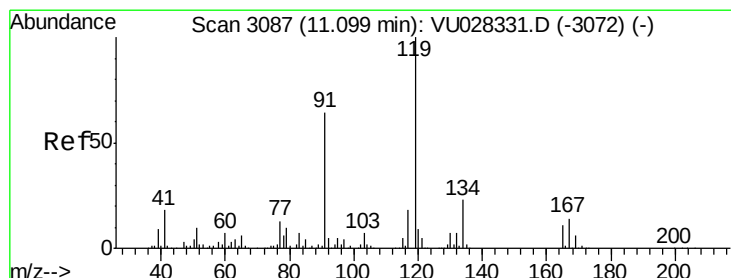
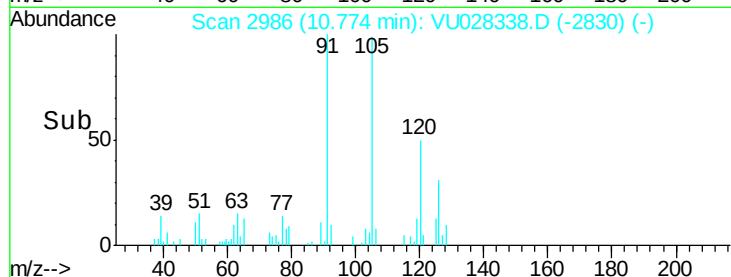
Abundance Ion 126.00 (125.70 to 126.70): V

Ion 91.00 (90.70 to 91.70): VU0



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#77

tert-Butylbenzene

Concen: 0.248 ug/l

RT: 11.10 min Scan# 3087

Delta R.T. -0.00 min

Lab File: VU028338.D

Acq: 26 Nov 2018 14:57

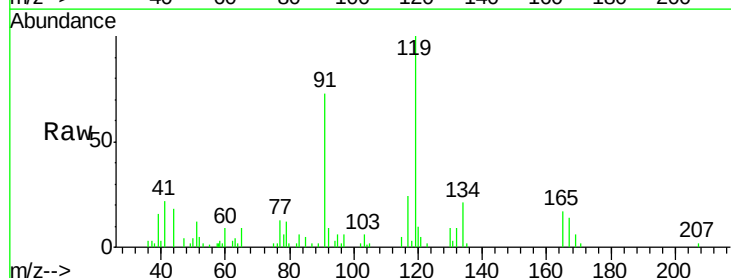
Tgt Ion:119 Resp: 11694

Ion Ratio Lower Upper

119 100

91 69.9 32.0 96.0

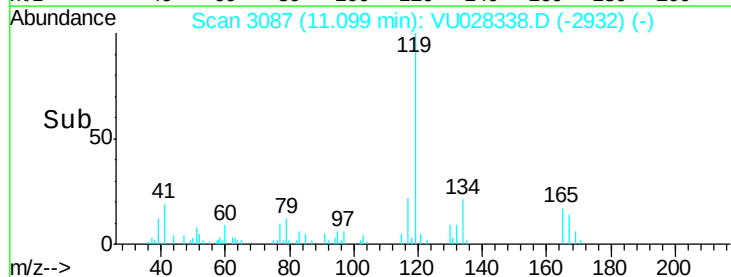
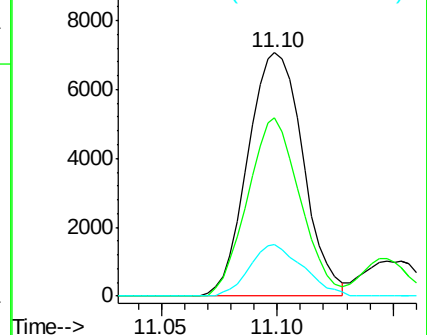
134 20.6 17.9 26.9

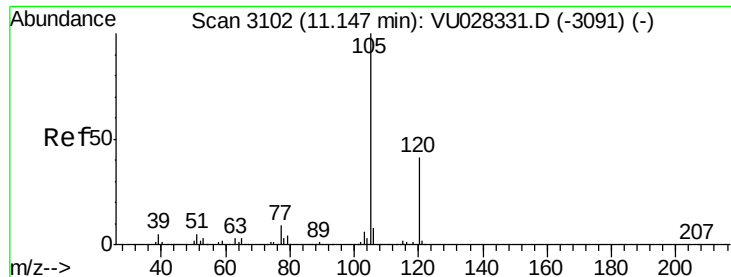


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VU0

Ion 134.00 (133.70 to 134.70): V





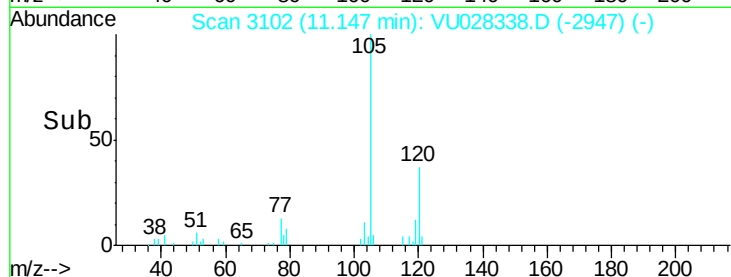
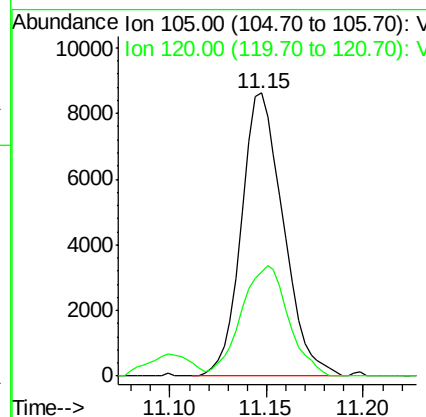
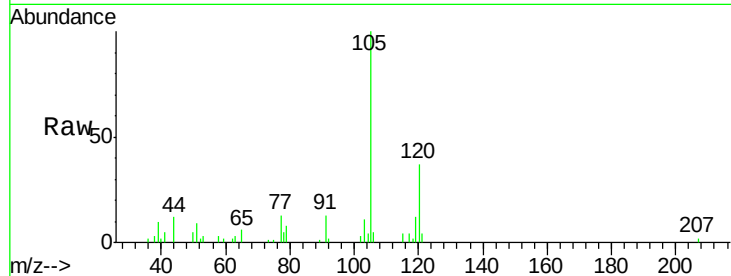
#78
 1,2,4-Trimethylbenzene
 Concen: 0.253 ug/l
 RT: 11.15 min Scan# 3102
 Delta R.T. -0.00 min
 Lab File: VU028338.D
 Acq: 26 Nov 2018 14:57

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-03-QT4-2018

Tgt Ion:105 Resp: 12996
 Ion Ratio Lower Upper
 105 100
 120 43.9 21.9 65.8

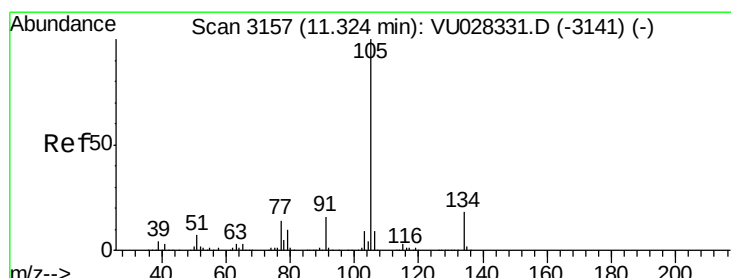
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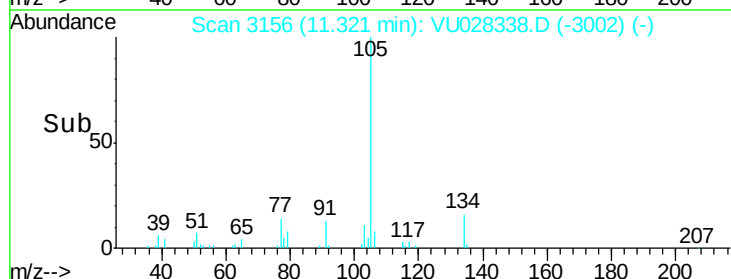
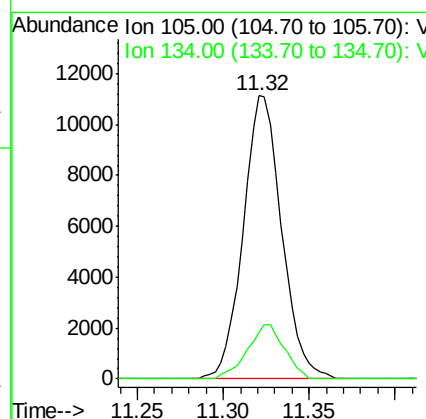
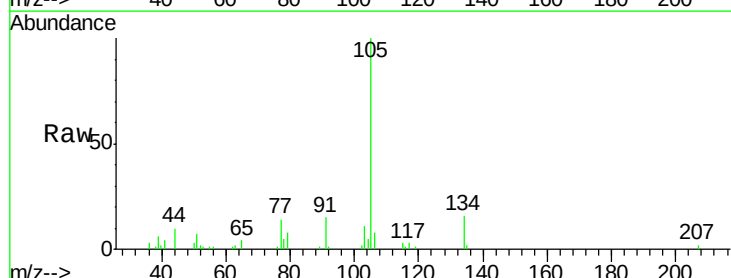
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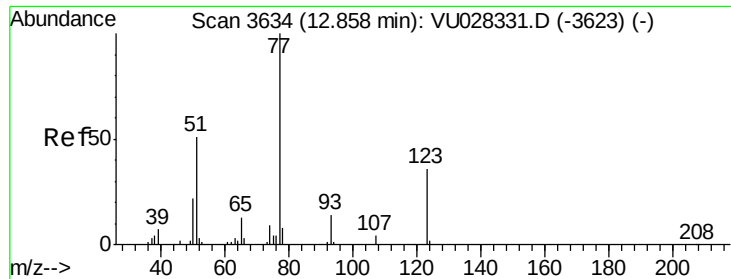
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#79
 sec-Butylbenzene
 Concen: 0.262 ug/l
 RT: 11.32 min Scan# 3156
 Delta R.T. -0.00 min
 Lab File: VU028338.D
 Acq: 26 Nov 2018 14:57

Tgt Ion:105 Resp: 17246
 Ion Ratio Lower Upper
 105 100
 134 18.4 14.6 22.0





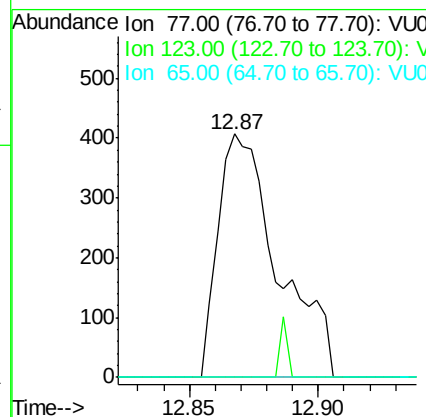
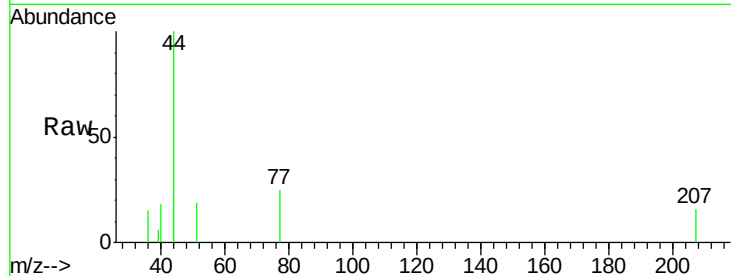
#80
 Nitrobenzene
 Concen: 1.071 ug/l
 RT: 12.87 min Scan# 3637
 Delta R.T. 0.01 min
 Lab File: VU028338.D
 Acq: 26 Nov 2018 14:57

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-03-QT4-2018

Tgt Ion	Ratio	Lower	Upper
77	100		
123	2.9	16.5	58.3#
65	0.0	12.1	15.3#

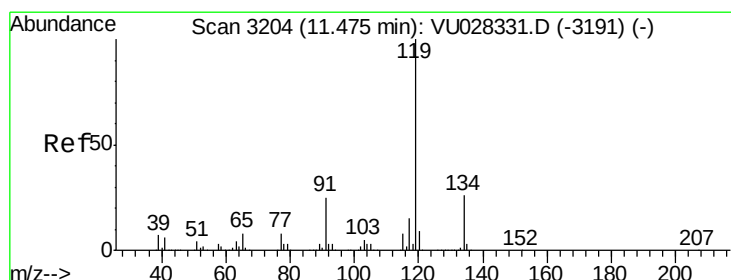
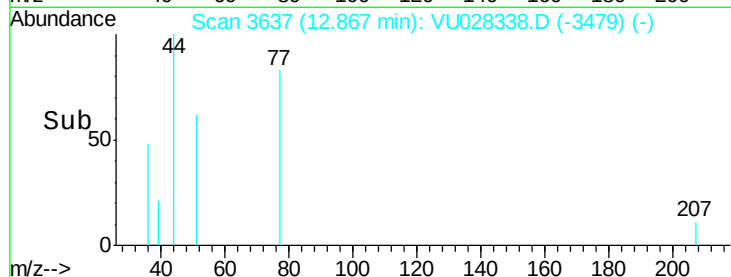
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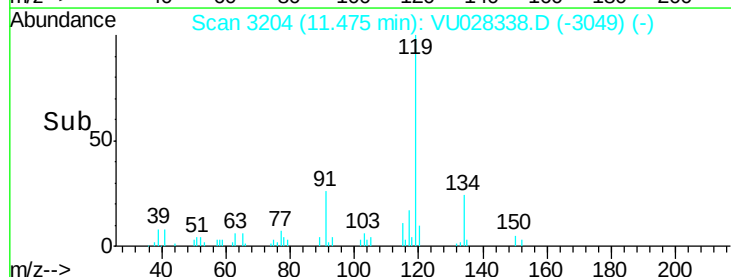
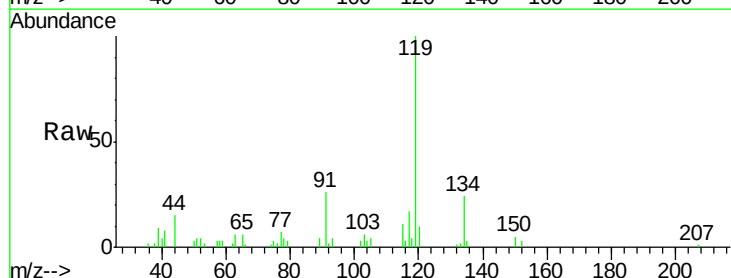
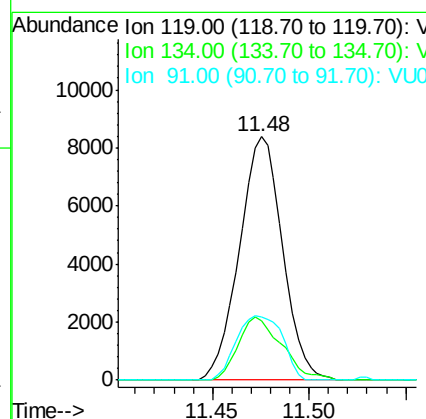
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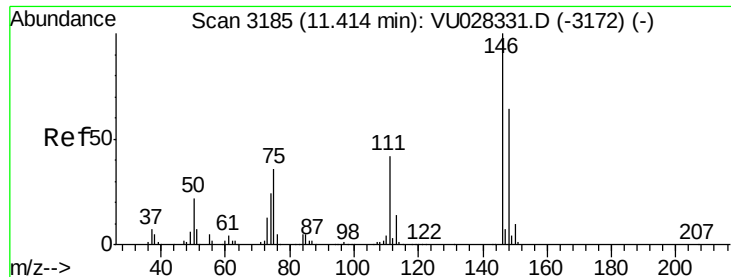
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#81
 p-Isopropyltoluene
 Concen: 0.249 ug/l
 RT: 11.48 min Scan# 3204
 Delta R.T. -0.00 min
 Lab File: VU028338.D
 Acq: 26 Nov 2018 14:57

Tgt Ion	Ratio	Lower	Upper
119	100		
134	26.0	20.3	30.5
91	28.2	20.0	30.0





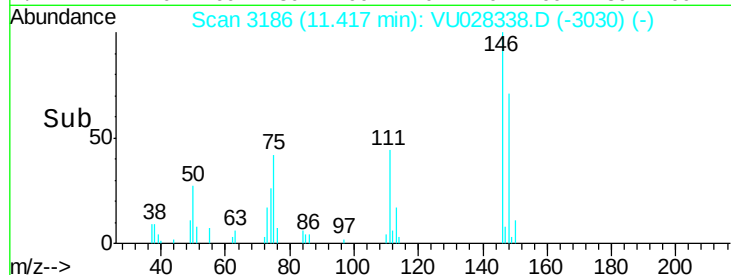
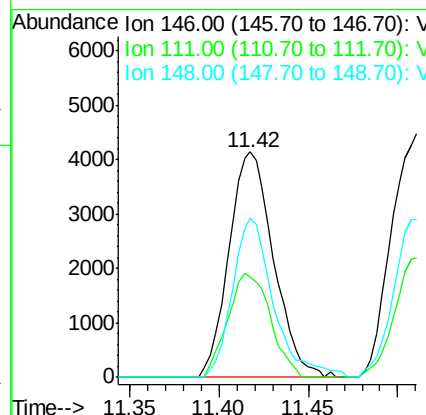
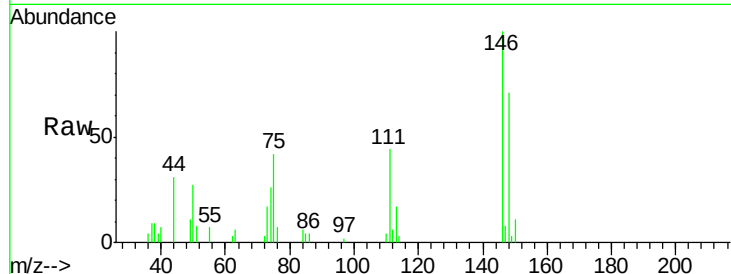
#82
 1,3-Dichlorobenzene
 Concen: 0.272 ug/l
 RT: 11.42 min Scan# 3186
 Delta R.T. 0.00 min
 Lab File: VU028338.D
 Acq: 26 Nov 2018 14:57

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-03-QT4-2018

Tgt Ion	Ratio	Lower	Upper
146	100		
111	43.9	33.4	50.2
148	64.9	51.2	76.8

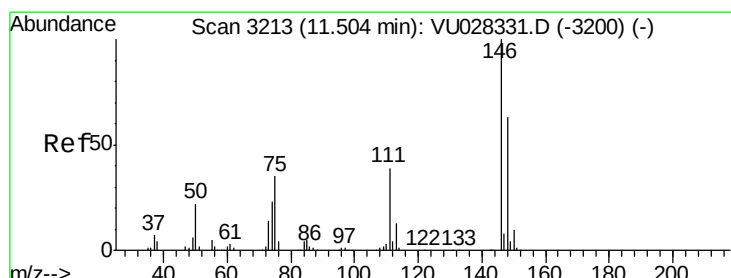
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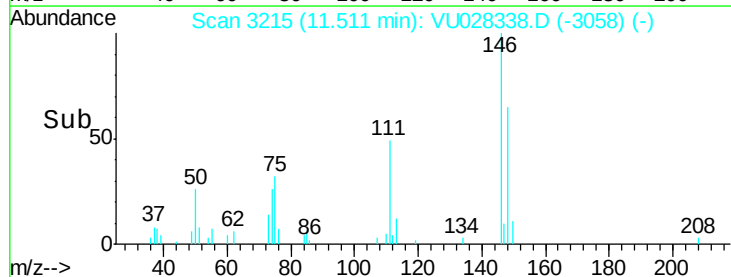
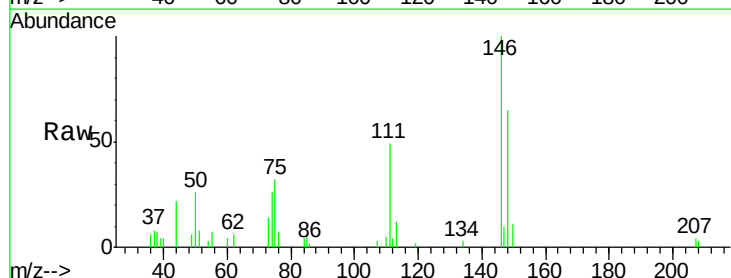
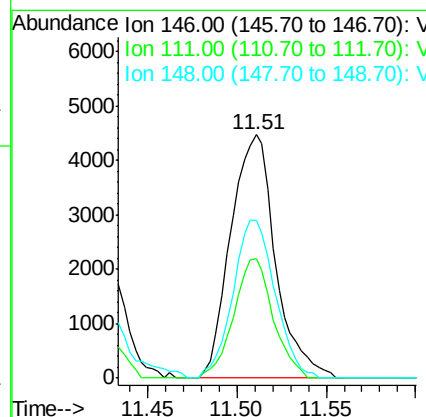
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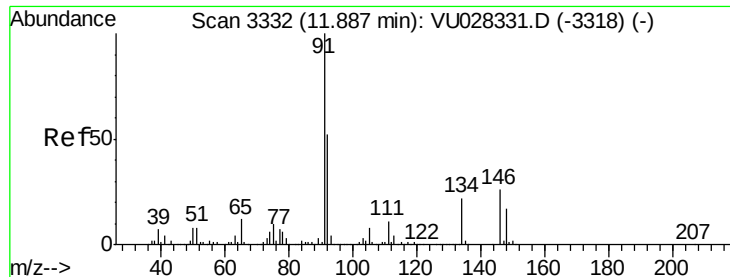
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#83
 1,4-Dichlorobenzene
 Concen: 0.296 ug/l
 RT: 11.51 min Scan# 3215
 Delta R.T. 0.01 min
 Lab File: VU028338.D
 Acq: 26 Nov 2018 14:57

Tgt Ion	Ratio	Lower	Upper
146	100		
111	43.2	31.4	47.2
148	61.3	50.7	76.1





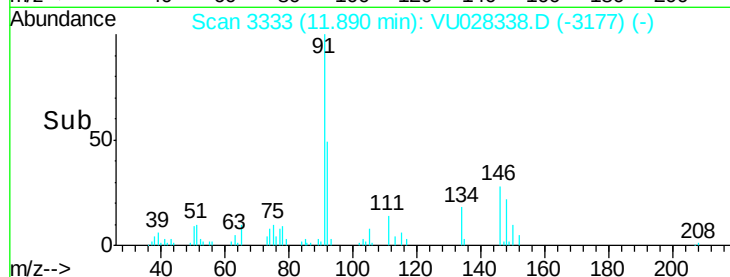
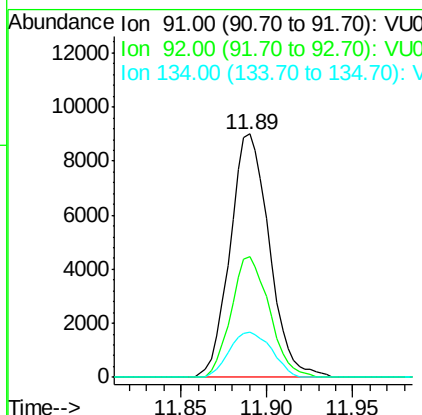
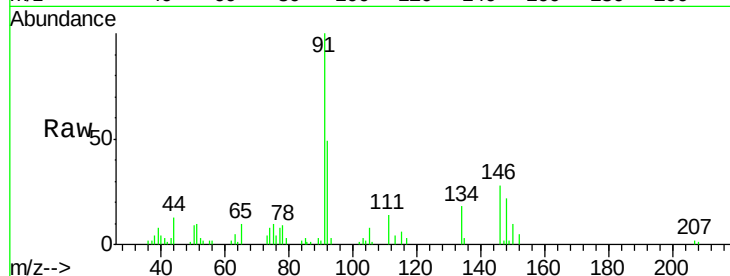
#84
n-Butylbenzene
Concen: 0.262 ug/l
RT: 11.89 min Scan# 3333
Delta R.T. 0.00 min
Lab File: VU028338.D
Acq: 26 Nov 2018 14:57

Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT4-2018

Tgt Ion: 91 Resp: 14349
Ion Ratio Lower Upper
91 100
92 48.3 41.6 62.4
134 20.0 17.8 26.6

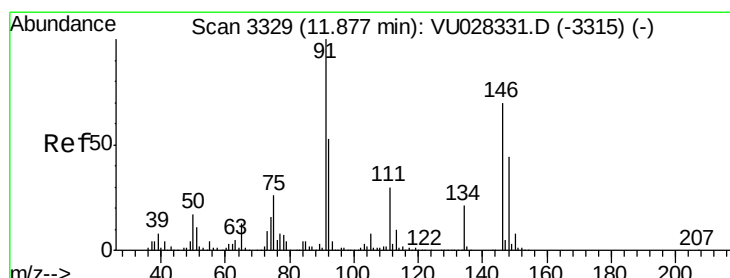
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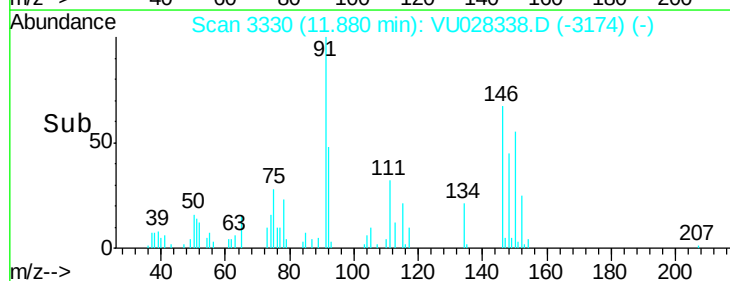
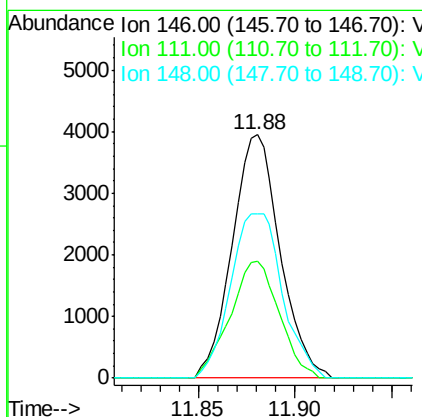
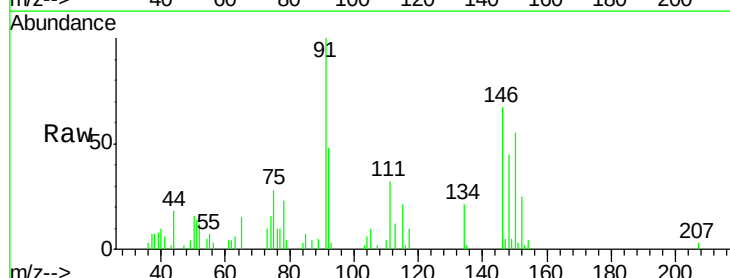
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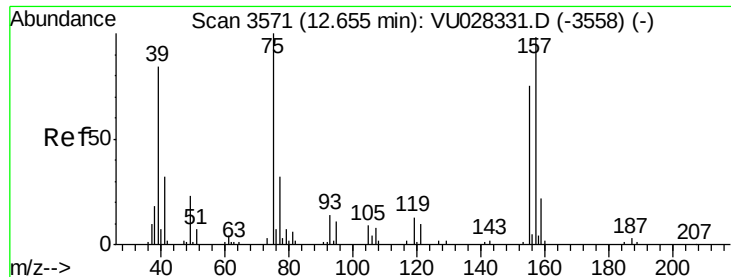
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#85
1,2-Dichlorobenzene
Concen: 0.269 ug/l
RT: 11.88 min Scan# 3330
Delta R.T. 0.00 min
Lab File: VU028338.D
Acq: 26 Nov 2018 14:57

Tgt Ion: 146 Resp: 6785
Ion Ratio Lower Upper
146 100
111 49.3 21.4 64.3
148 73.3 31.4 94.2





#86

1,2-Dibromo-3-Chloropropane

Concen: 0.262 ug/l

RT: 12.66 min Scan# 3572

Delta R.T. 0.00 min

Lab File: VU028338.D

Acq: 26 Nov 2018 14:57

Instrument :

MSVOA_U

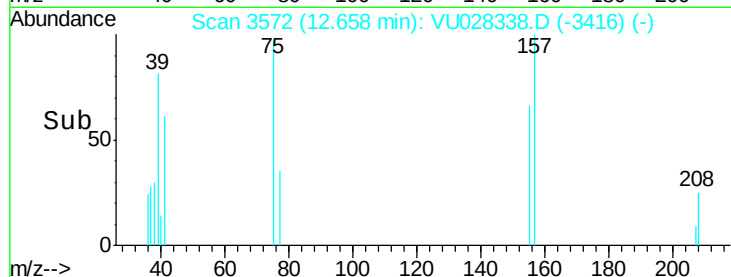
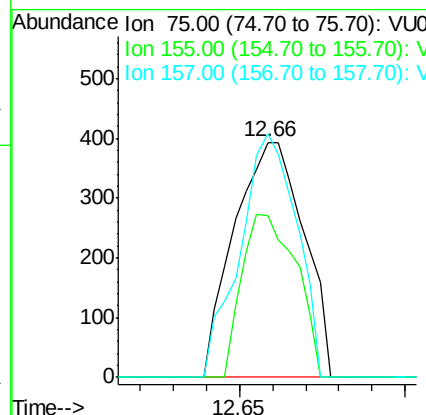
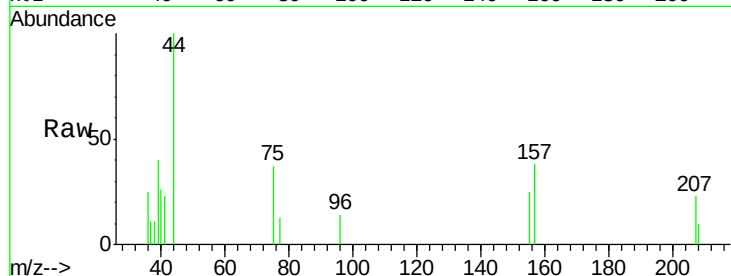
ClientSampleId :

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Tgt Ion: 75 Resp: 575
 Ion Ratio Lower Upper
 75 100
 155 54.1 57.0 85.4#
 157 84.5 75.4 113.2

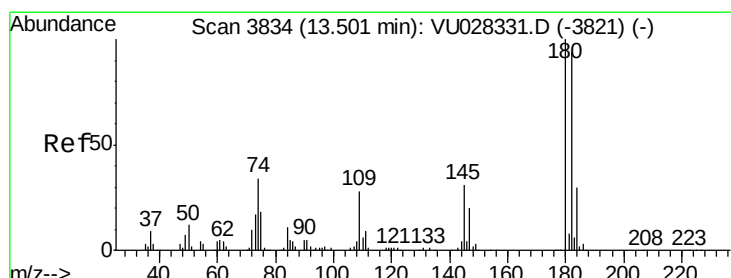
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#87

1,2,4-Trichlorobenzene

Concen: 0.290 ug/l

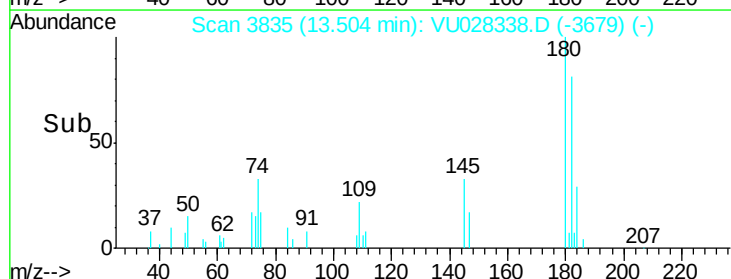
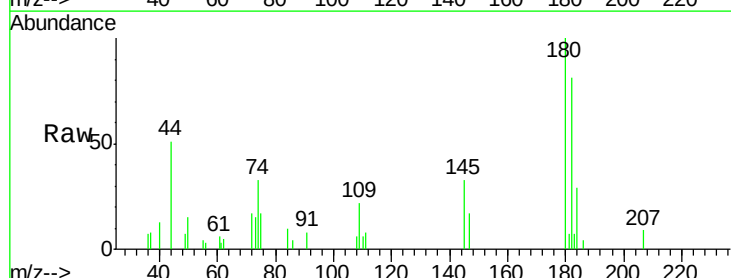
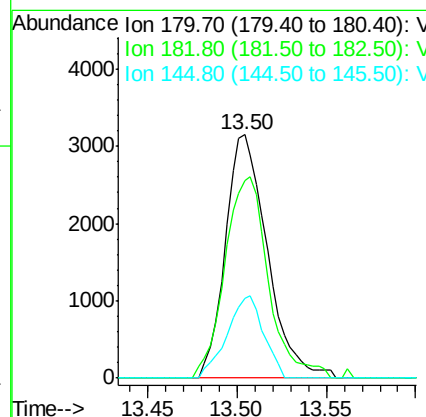
RT: 13.50 min Scan# 3835

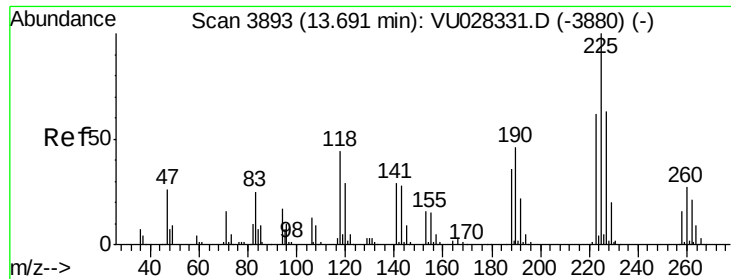
Delta R.T. 0.00 min

Lab File: VU028338.D

Acq: 26 Nov 2018 14:57

Tgt Ion: 180 Resp: 5139
 Ion Ratio Lower Upper
 180 100
 182 85.8 75.6 113.4
 145 29.3 24.4 36.6





#88

Hexachlorobutadiene

Concen: 0.256 ug/l

RT: 13.69 min Scan# 3894

Delta R.T. 0.00 min

Lab File: VU028338.D

Acq: 26 Nov 2018 14:57

Instrument :

MSVOA_U

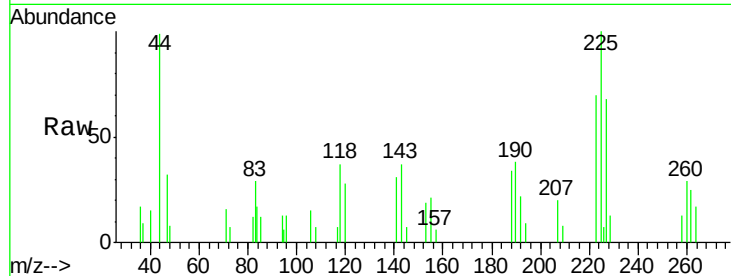
ClientSampleId :

MDL-WATER-03-QT4-2018

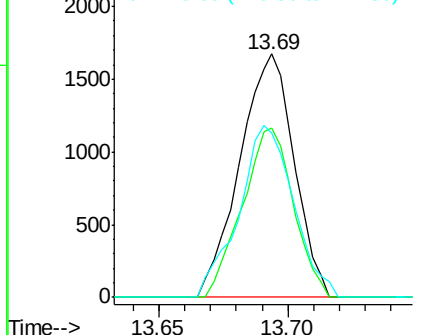
Tgt Ion:	225	Resp:	2452
Ion Ratio	Lower	Upper	
225	100		
223	65.7	50.6	76.0
227	71.3	50.8	76.2

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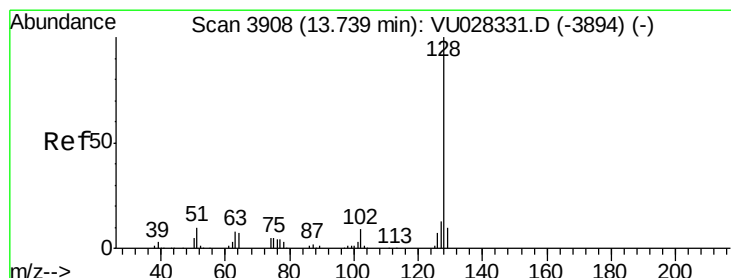
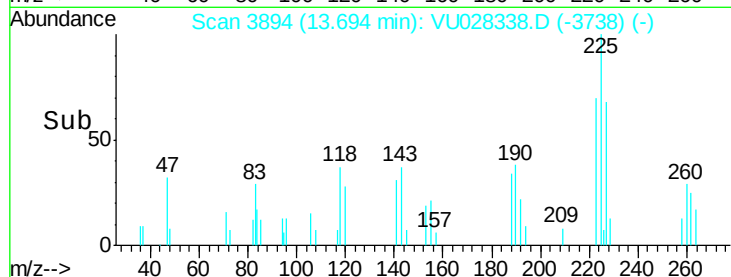


Abundance Ion 224.60 (224.30 to 225.30): V
Ion 222.60 (222.30 to 223.30): V
Ion 226.60 (226.30 to 227.30): V



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#89

Naphthalene

Concen: 0.247 ug/l

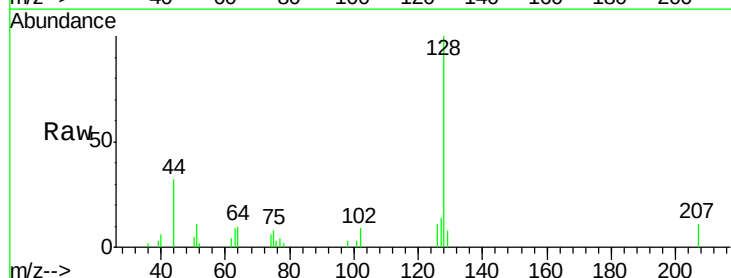
RT: 13.75 min Scan# 3910

Delta R.T. 0.01 min

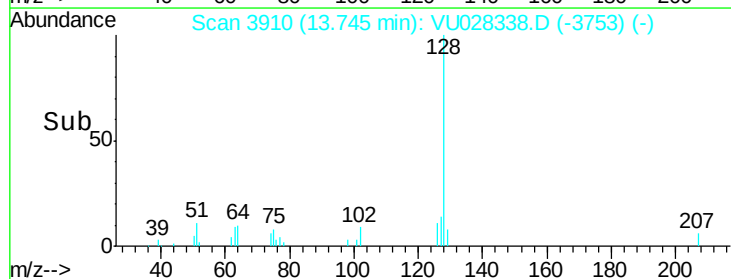
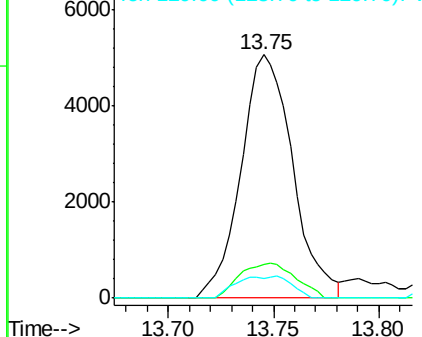
Lab File: VU028338.D

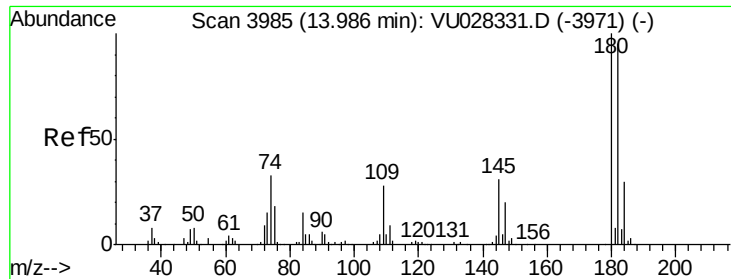
Acq: 26 Nov 2018 14:57

Tgt Ion:	128	Resp:	8644
Ion Ratio	Lower	Upper	
128	100		
127	15.4	10.3	15.5
129	9.5	8.2	12.4



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V





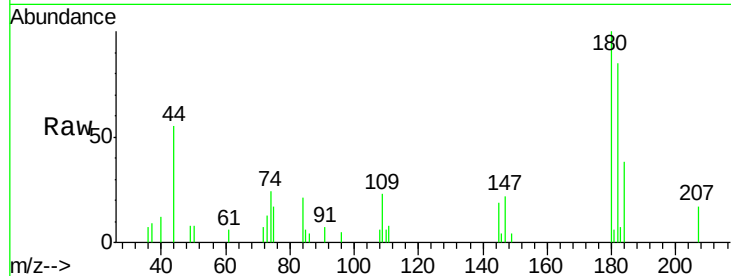
#90
 1,2,3-Trichlorobenzene
 Concen: 0.276 ug/l
 RT: 13.99 min Scan# 3987
 Delta R.T. 0.01 min
 Lab File: VU028338.D
 Acq: 26 Nov 2018 14:57

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-03-QT4-2018

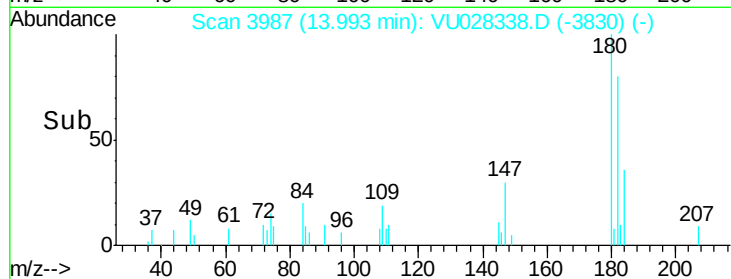
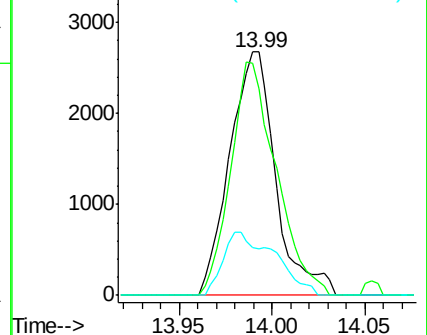
Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.9	76.1	114.1
145	29.2	26.0	39.0

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Abundance Ion 179.70 (179.40 to 180.40): V
 Ion 181.70 (181.40 to 182.40): V
 Ion 144.80 (144.50 to 145.50): V



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